

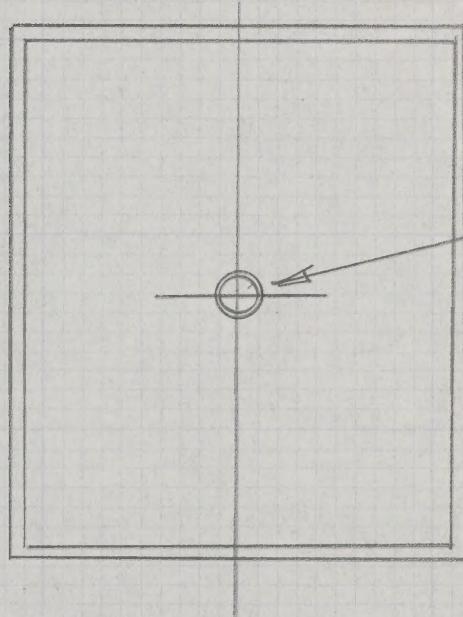
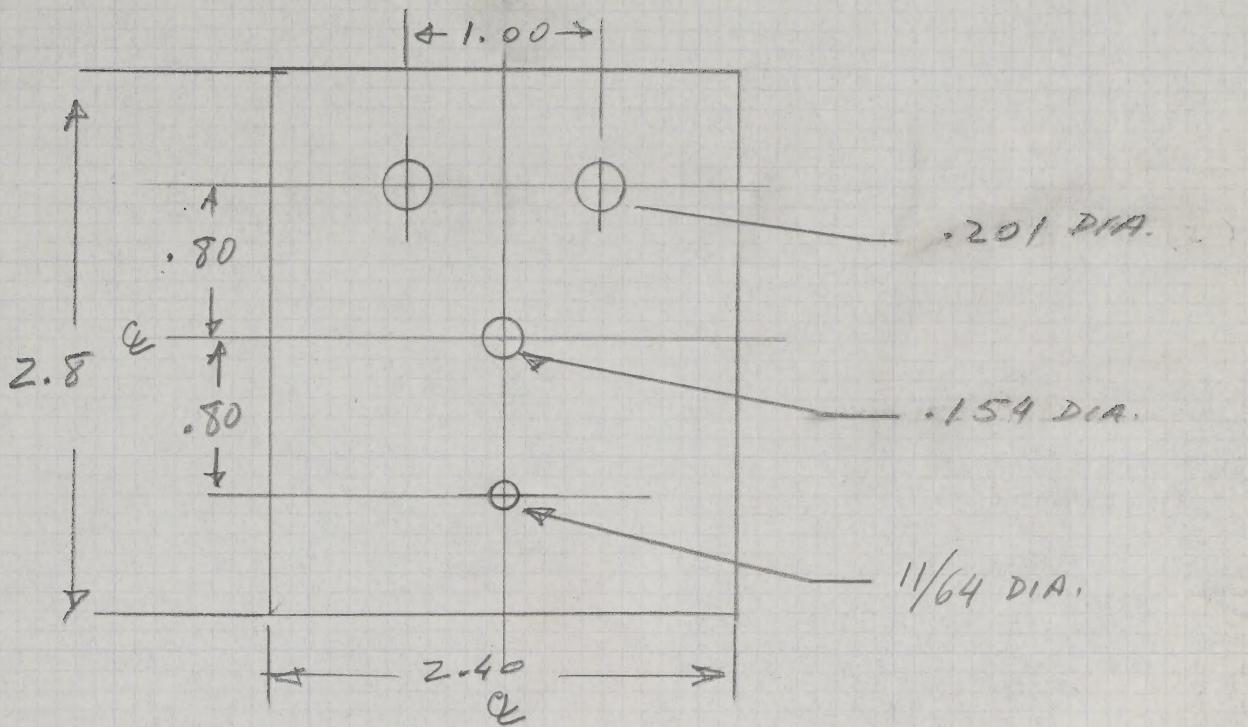
90646

MME TWO  
PRD 5000  
TO  
ROGON  
BOSWELL



Digitized by the Internet Archive  
in 2023 with funding from  
Amateur Radio Digital Communications, Grant 151

<https://archive.org/details/101853windcontro00unse>



MOUNT INSERT  
WITH GLUE  
OR CEMENT

INSIDE VIEW

MODIFICATION OF CASE

POS-2400280052

TOP DWG: 101853

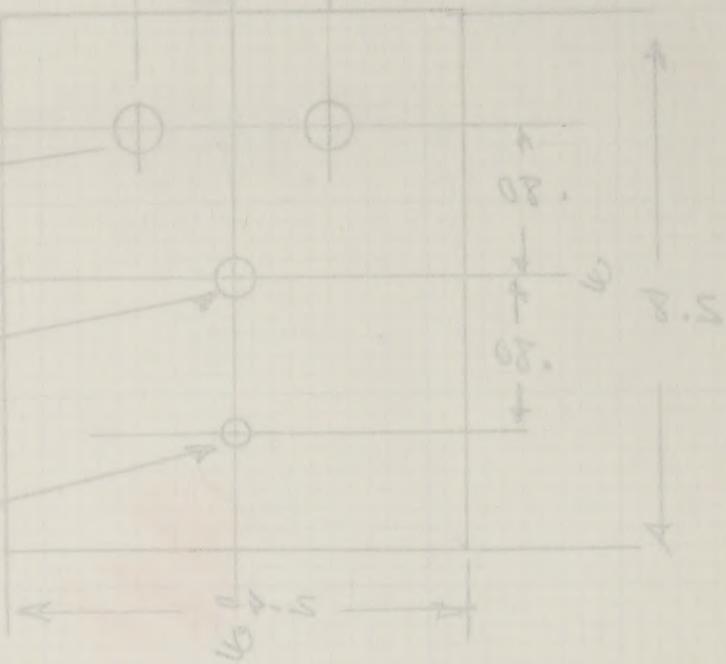
5/12/88

400.1-5

13.000 x 0.5

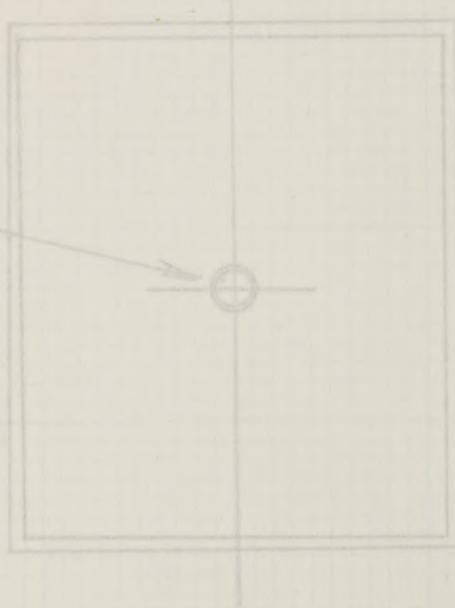
MA 821

MA 4011



0

TOOK THE  
MATERIAL  
AS CHANNEL

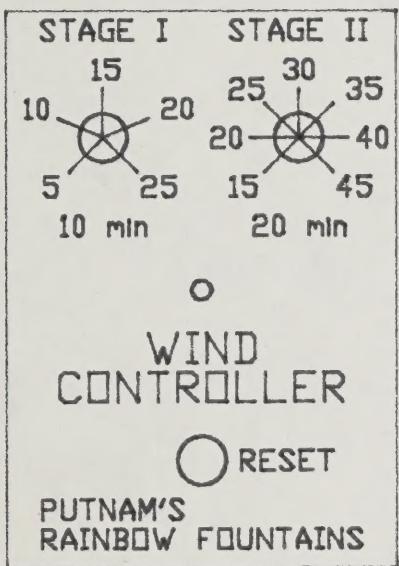


MA 821

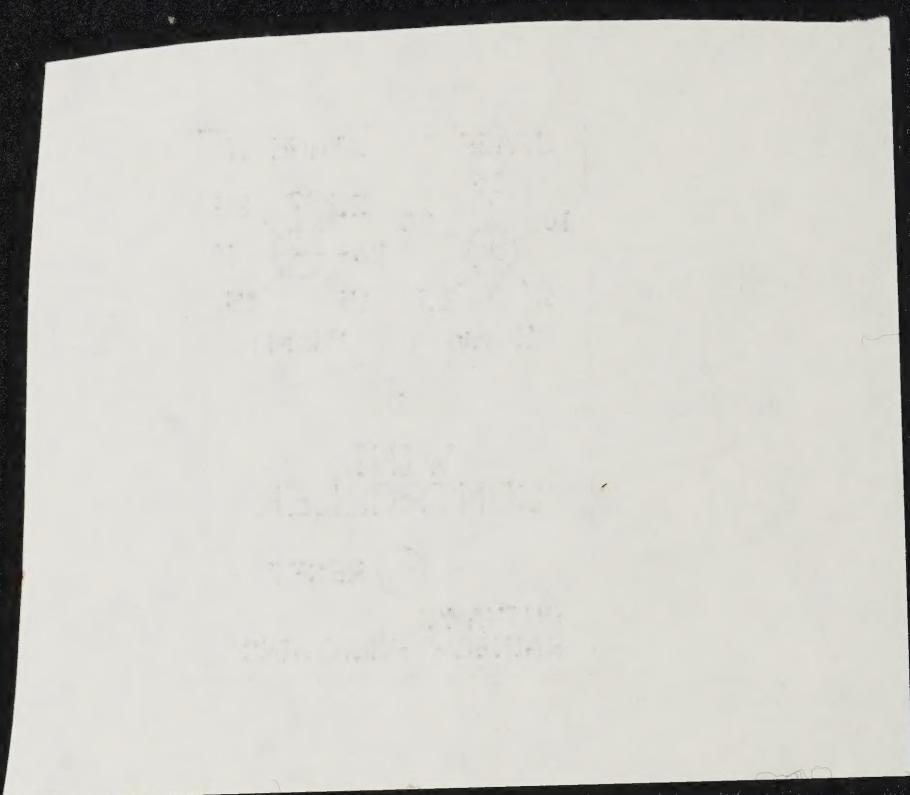
WINDING  
5200856606-200

400.1-5

Don't  
Loose  
-  
Oral  
Copy  
=====



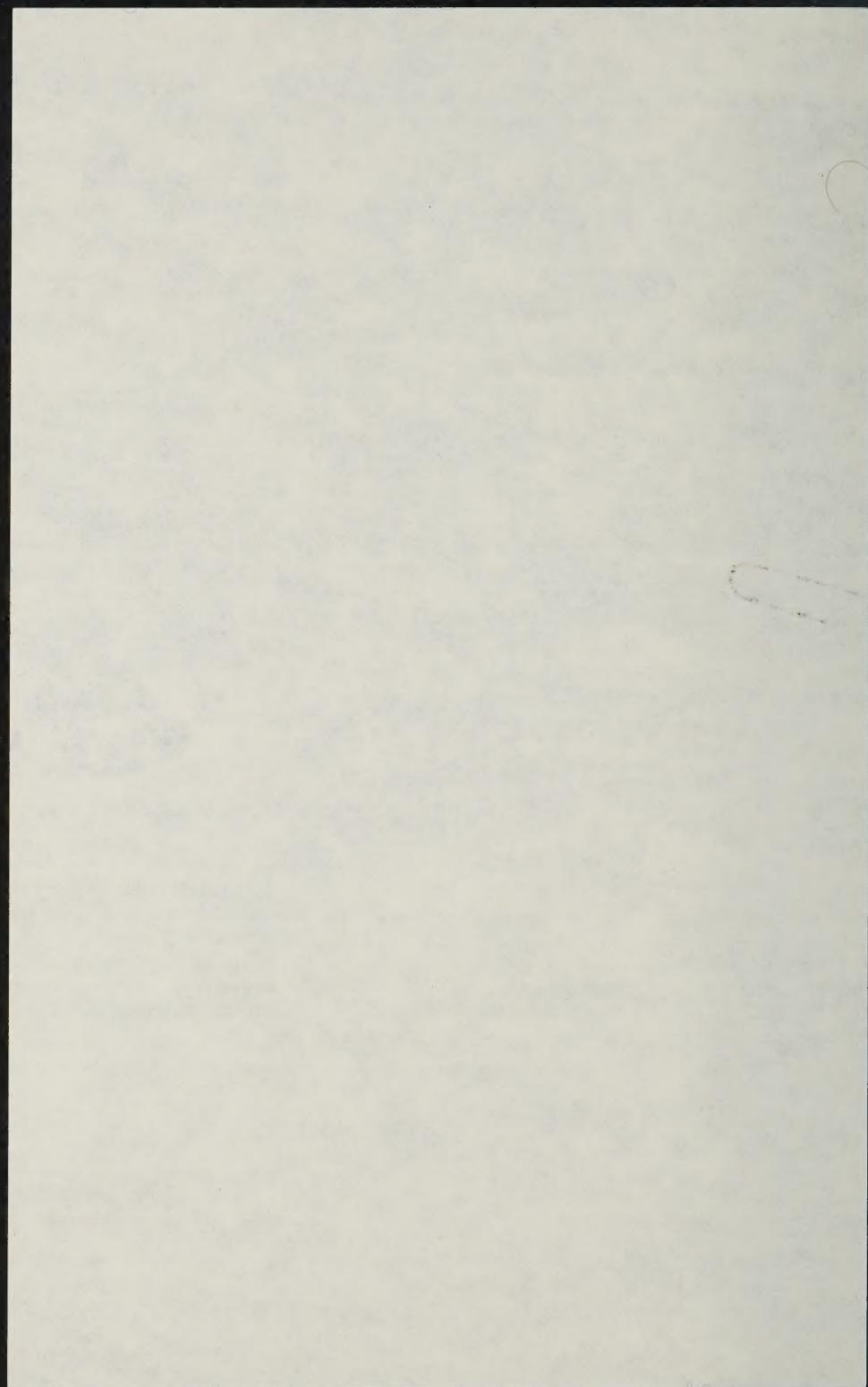
90646

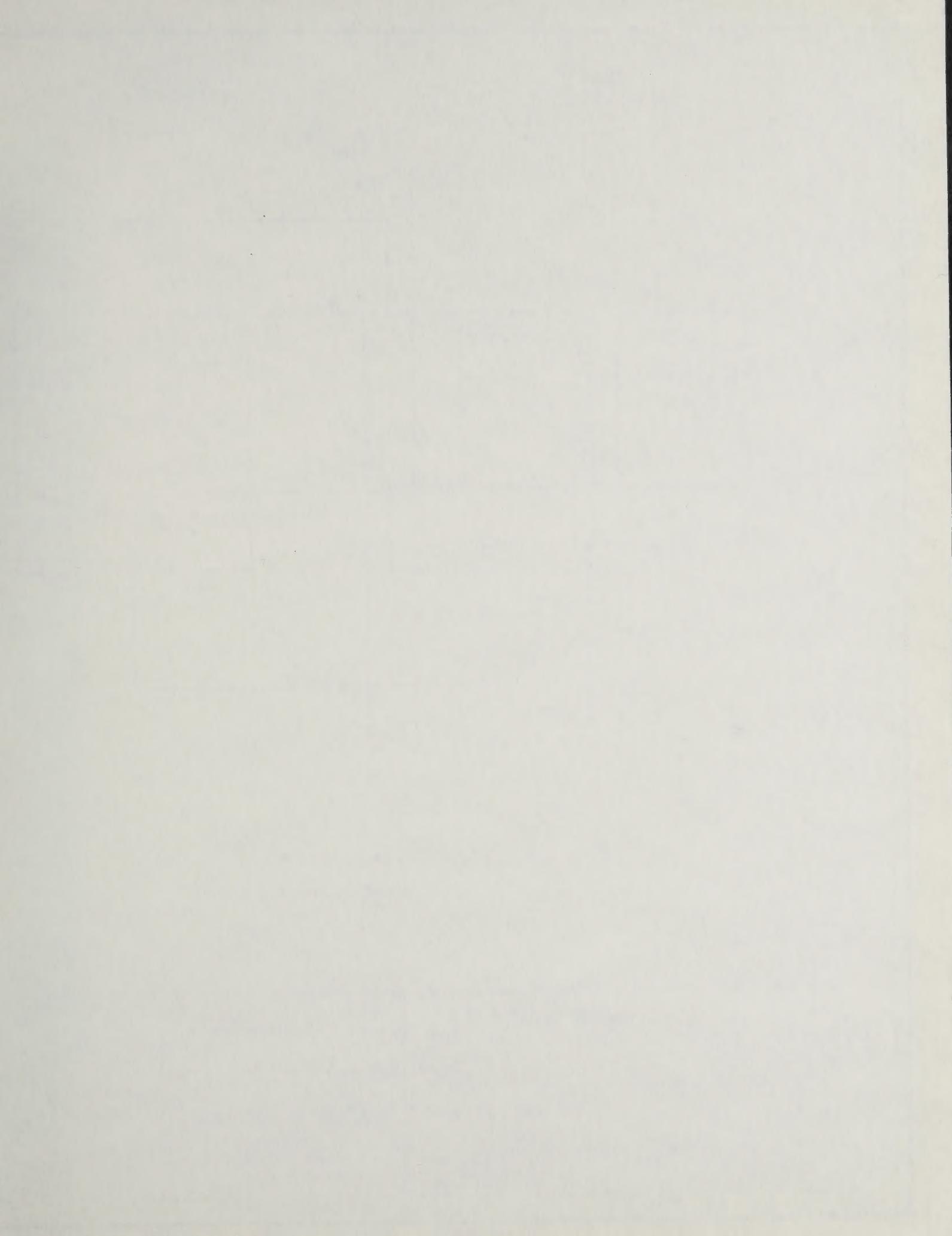


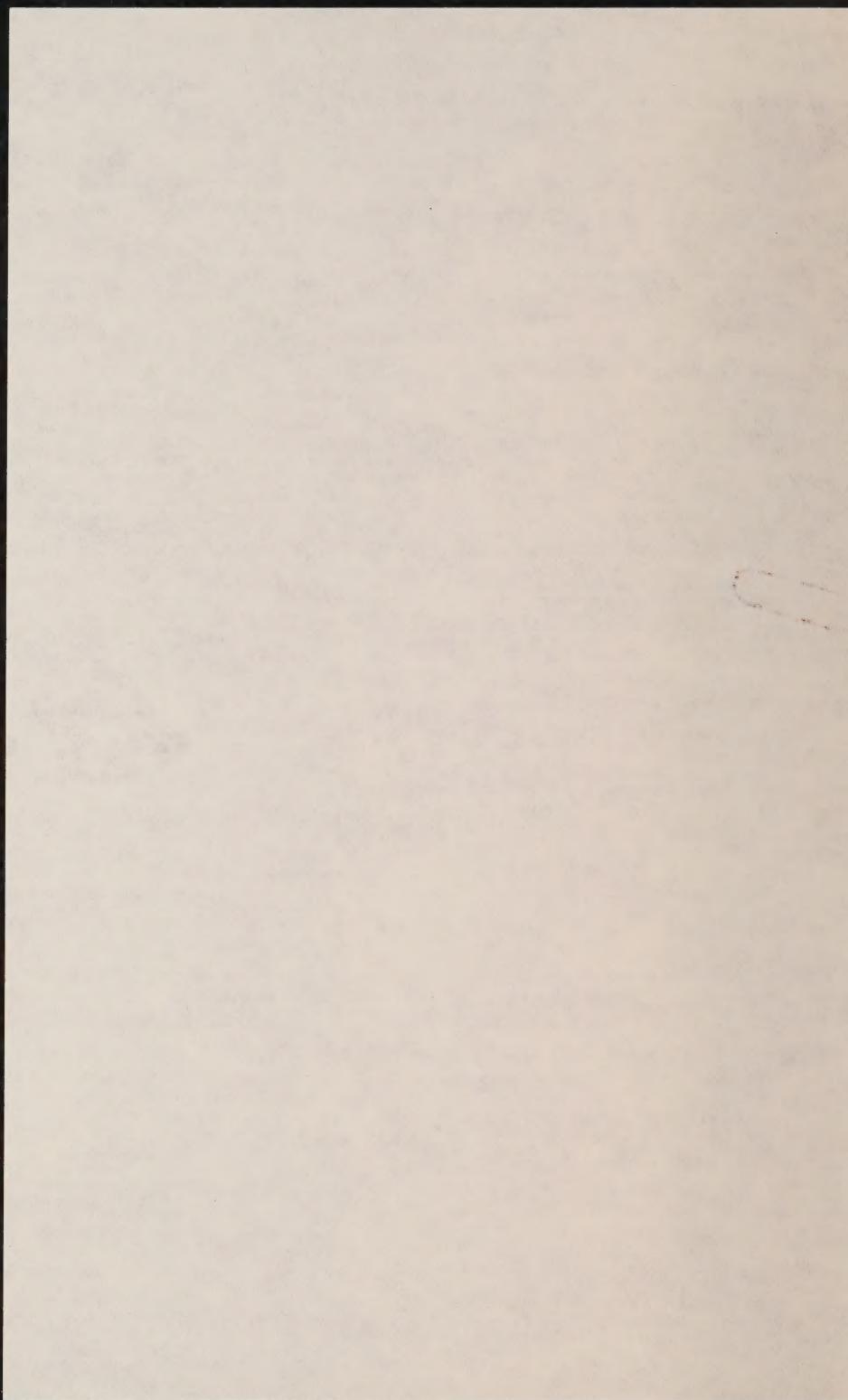
## ADJUSTMENT RANGES

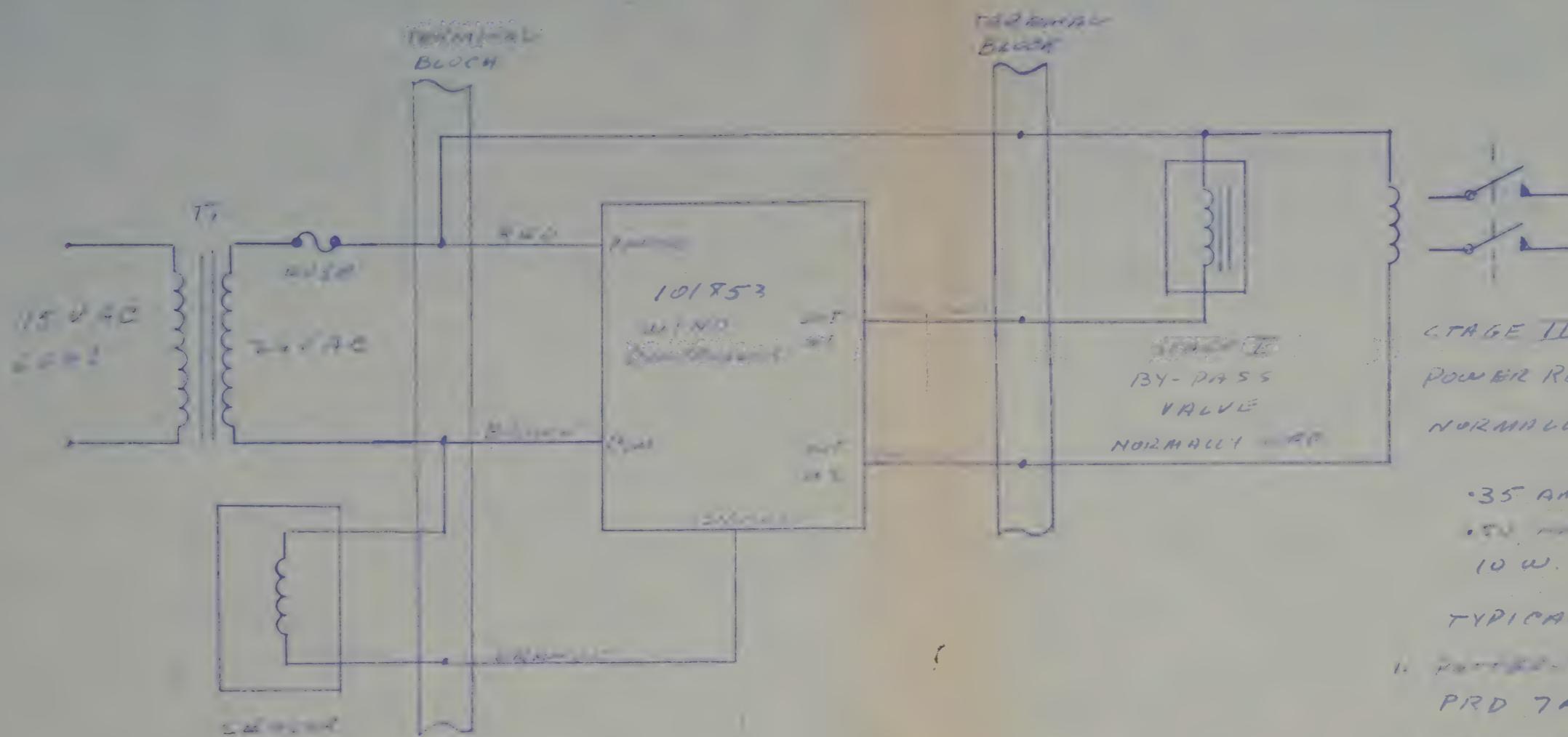
STAGE I (10 min)  
MPIT  
5-25 min.

STAGE II (20 min)  
MPIT  
30 - 45 min.









STAGE II  
POWER RELAY  
NORMALLY ON

• 35 AMP. NOMINAL  
• 50 AMP. MAX  
10 W. MAX

TYPICAL RELAYS

1. FORTRESS RELAY  
PRD 7AY0-24VAC

2. W199  
W199 AX-8

STAGE I: 5-25 MPH  
10 AMP. (max. power)  
NORMALLY OPEN

STAGE II: 15-45 MPH  
20 AMP. (max. power)  
NORMALLY OPEN

RESET TIME: 15 SEC. MAX.

DIMENSIONS ARE  
IN INCHES AND  
AFTER PLATING

TOLERANCES  
(unless otherwise  
specified)

X  $\pm .1$   
XX  $\pm .03$   
XXX  $\pm .010$   
ANGLES  $\pm 0.5^\circ$

MACH  
SURF

P/N - 101853

DR *Refers* *101853*

CHK

DSGN

PROJ

REL *Refers* *101853*

APPROVED

APPROVED

DO NOT SCALE DRAWING

**Parko**

ELECTRONICS COMPANY INC., SANTA ANA, CALIF.

WIRING DIAGRAM -

WIND CONTROLLER

CODE IDENT NO.  
13979

SIZE  
B

REV  
101854

SCALE

SHEET 2 OF 2



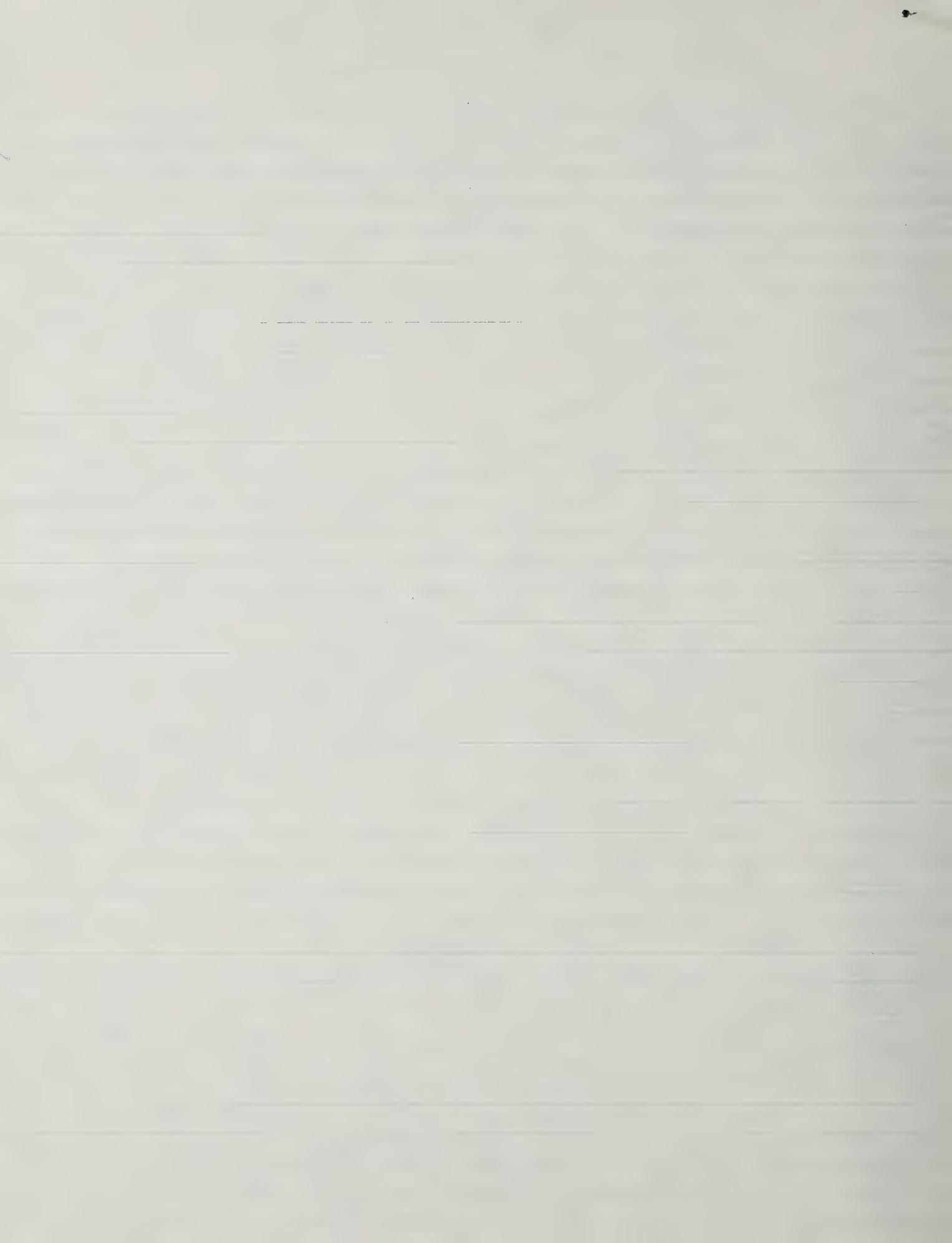
3-11-88

Do not read

WIND TUNNEL & PLATE  
PARTS USED FOR PROTOTYPE AND

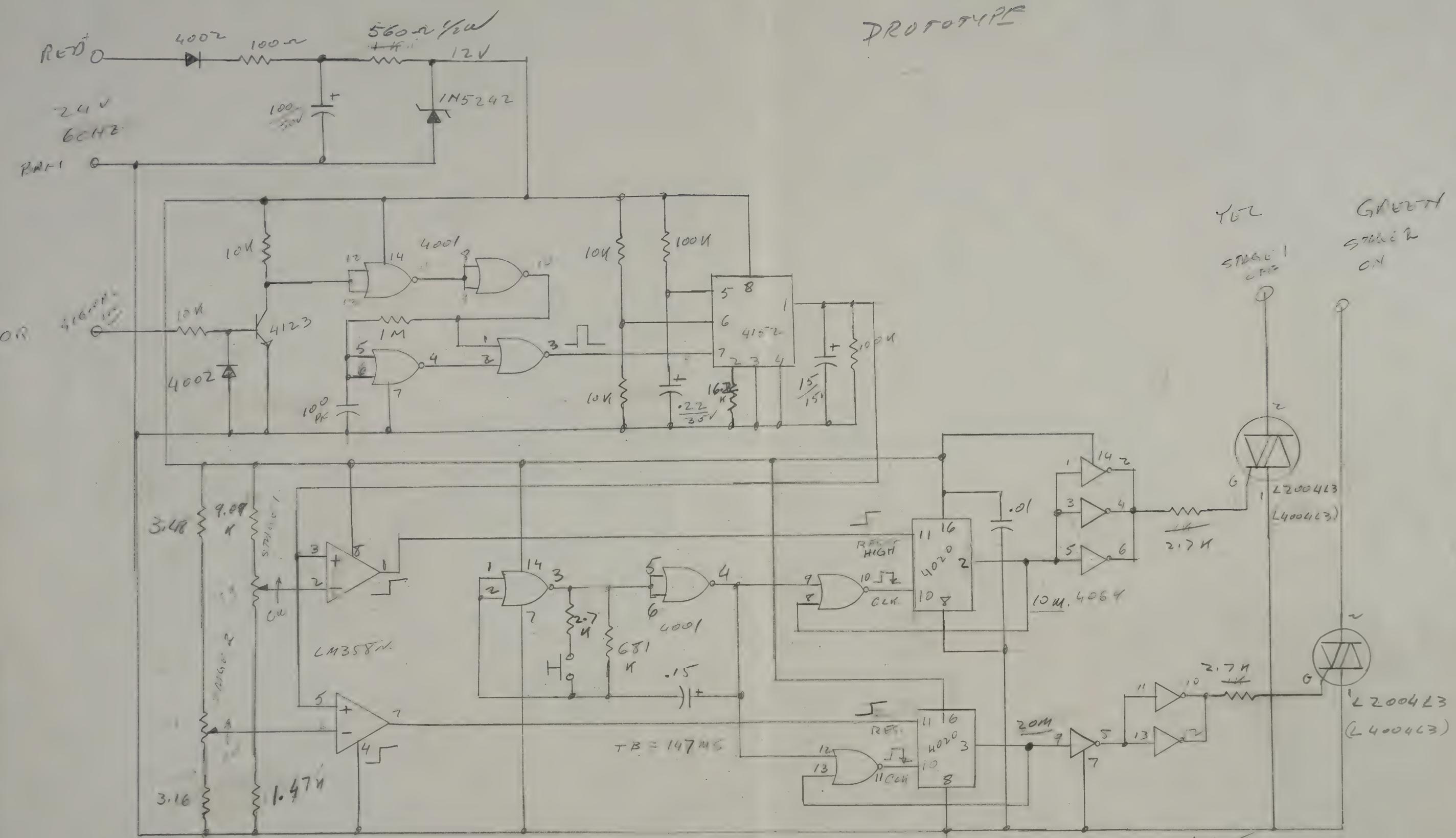
2 - CD 4030 ~~new~~  
2 - CD 4031 ~~new~~  
1 - CD 4069 BUFFER/INVERTER  
1 - 4452 FREQUENCER  
1 - 2N4123 ~~new~~  
2 - 2N2004L3 ~~TRANSISTOR~~  
2 - 1N4002 ~~new~~  
1 - 1D5242 ~~new~~ (9637 11750)  
1 - ~~SEARCH COIL~~  
2 - ~~5K POT~~ - MOUSER TYPE (204K-100) RD:  
1 - 1000PF/50V CAP - TAP. ACUM (ME 208-501100)  
1 - 15116 ~~100PF~~ - ~~50V~~ - 11 " 560-15M1  
1 - ~~0.22/35~~ ~~0.22~~ DIP " " 0.22M35  
1 - ~~0.15/500V~~ ~~0.15~~ <sup>DIP</sup> C513 " 560-0.15M35 - MAST 10  
1 - ~~100PF~~ - CH12 CAP 21RD610 - MOUSER  
1 - ~~100PF~~ - ~~100V~~  
  
4 - 100 ~~PF~~ - R007  
2 - 100 ~~PF~~ - R007  
1 - 1M - R007  
1 - 16.2K - R007  
1 - 631K - R007  
- 001 - CH12 - CAP - 21RD610  
- 2.7K ~~1000~~  
- 5600 ~~1000~~ ~~1000~~  
- 3.48K ~~1000~~  
- 3161 ~~1000~~  
- 9.09K ~~1000~~  
- 1.42K ~~1000~~











STAGE 1 5-25 min  
STAGE 2 15-45 min

STAGE 2 15-45 min

# SESSION FOLIO

## TEST

### REPORT

#### (1.3 min.)

$$2^{13} = 8192 = 1204.22,60 = 20.07 \text{ min}$$

$$2^{12} = 4096 = 602.11/60 = 10.03 \text{ min}$$

TRT FOR 1096

101853  
WIND CONTROLLER

3/18/88



$$464 = 16 -$$
$$422$$
$$383$$

158	→	HZ
5	→	2.9 -
10	→	8.7
20	→	14.5 -
40	→	26.1

916 - 423 - 1122

golden brown

-10.5 = 642 .571

16.9 = 1042 .591

20.3 = 1242 .591

33.4 = 2042 598

51.4 = 3042 583

$\sqrt{58} \times 5 =$

#1 3 HZ - 14 HZ

#2 9 HZ - 23 HZ

#1 ~~4 HZ~~ <sup>2.9</sup> - <sup>#2</sup> 14.3

#2 ~~9 HZ~~ - 23 HZ

~~8.2~~ - <sup>A3</sup> 13.5

#1 - ~~2 HZ~~ - 14 HZ

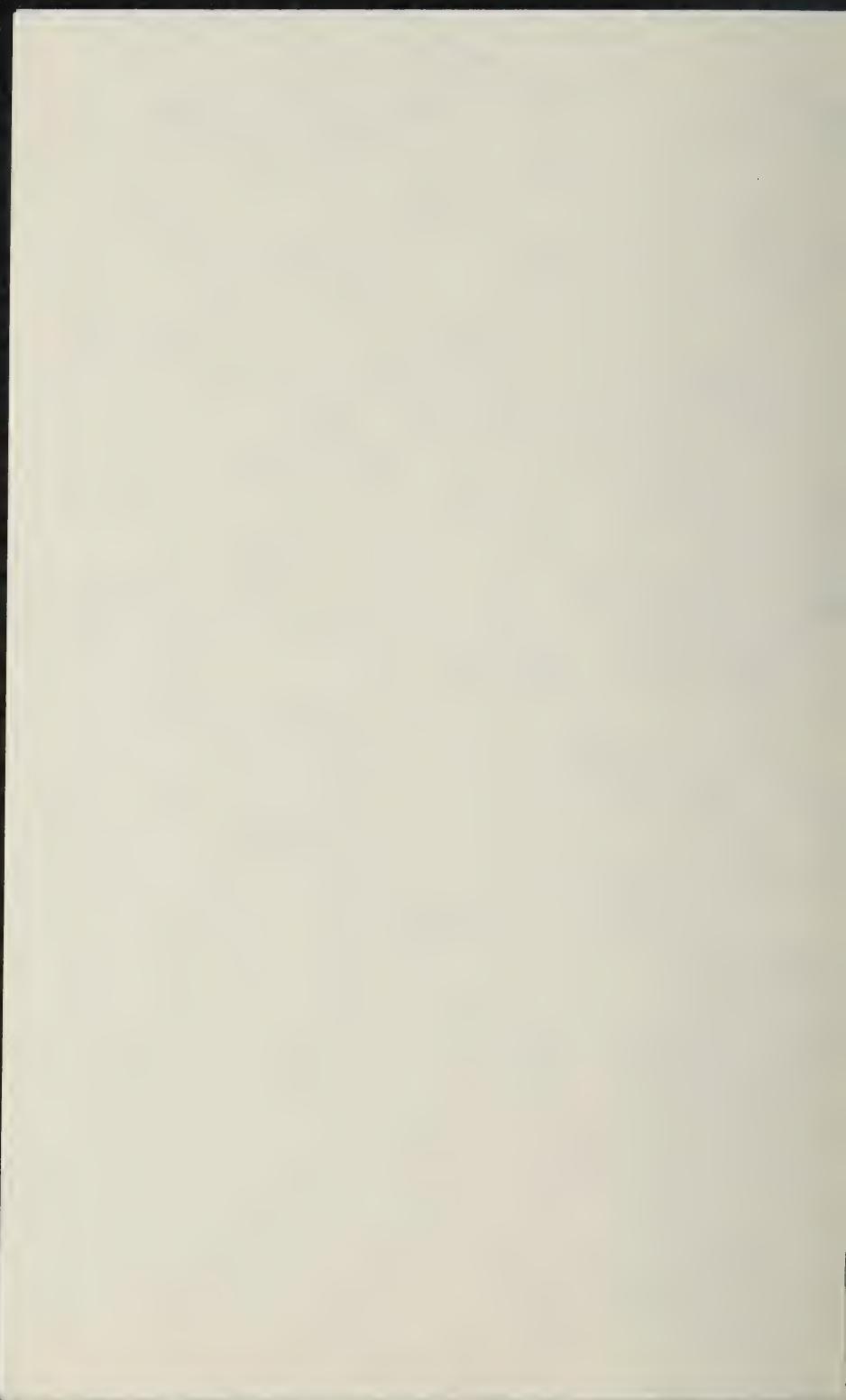
#2 ~~8 HZ~~ - 24 HZ

~~8.3~~ <sup>22</sup>

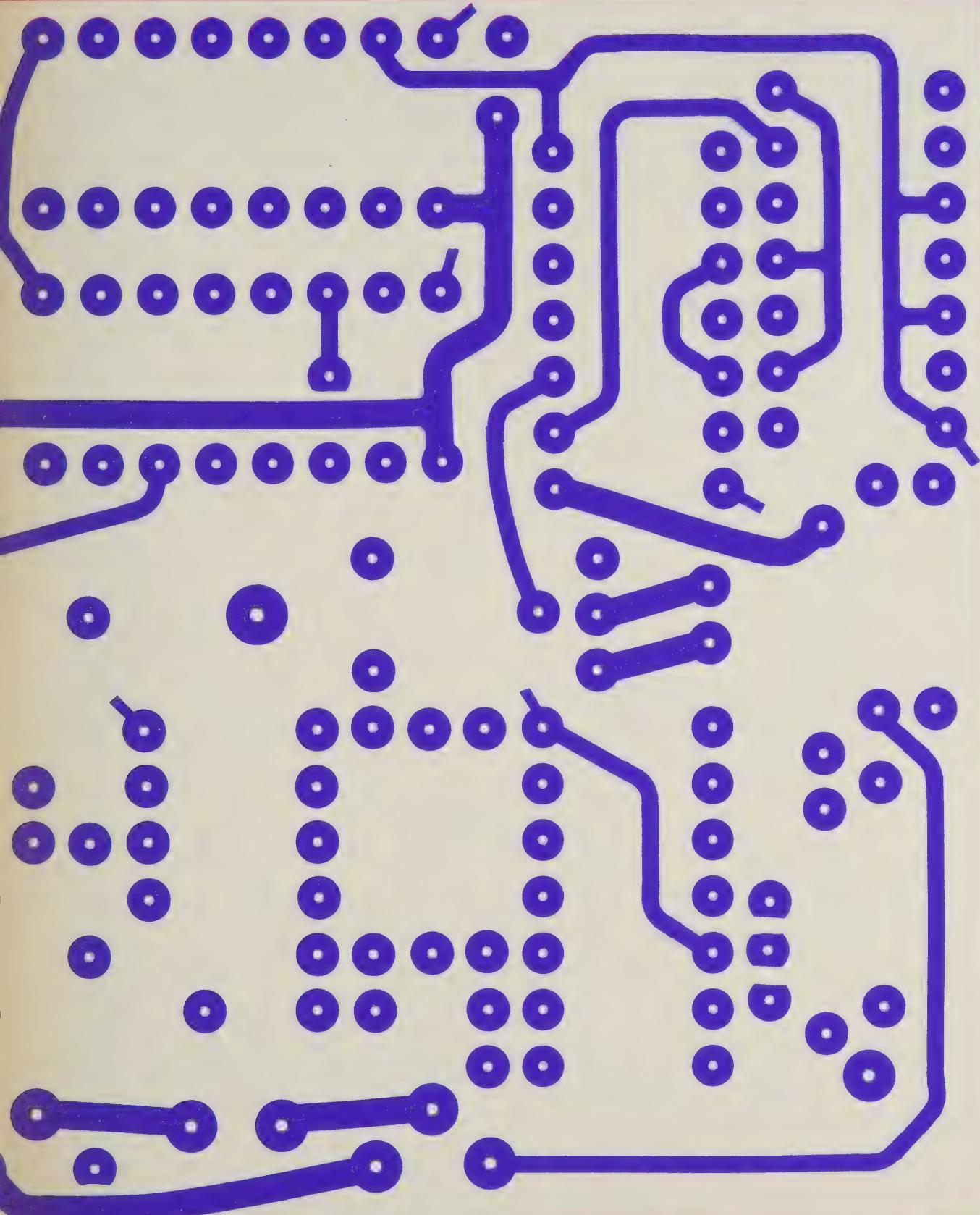
RANGER

2.5 13-3

7.0 21-3

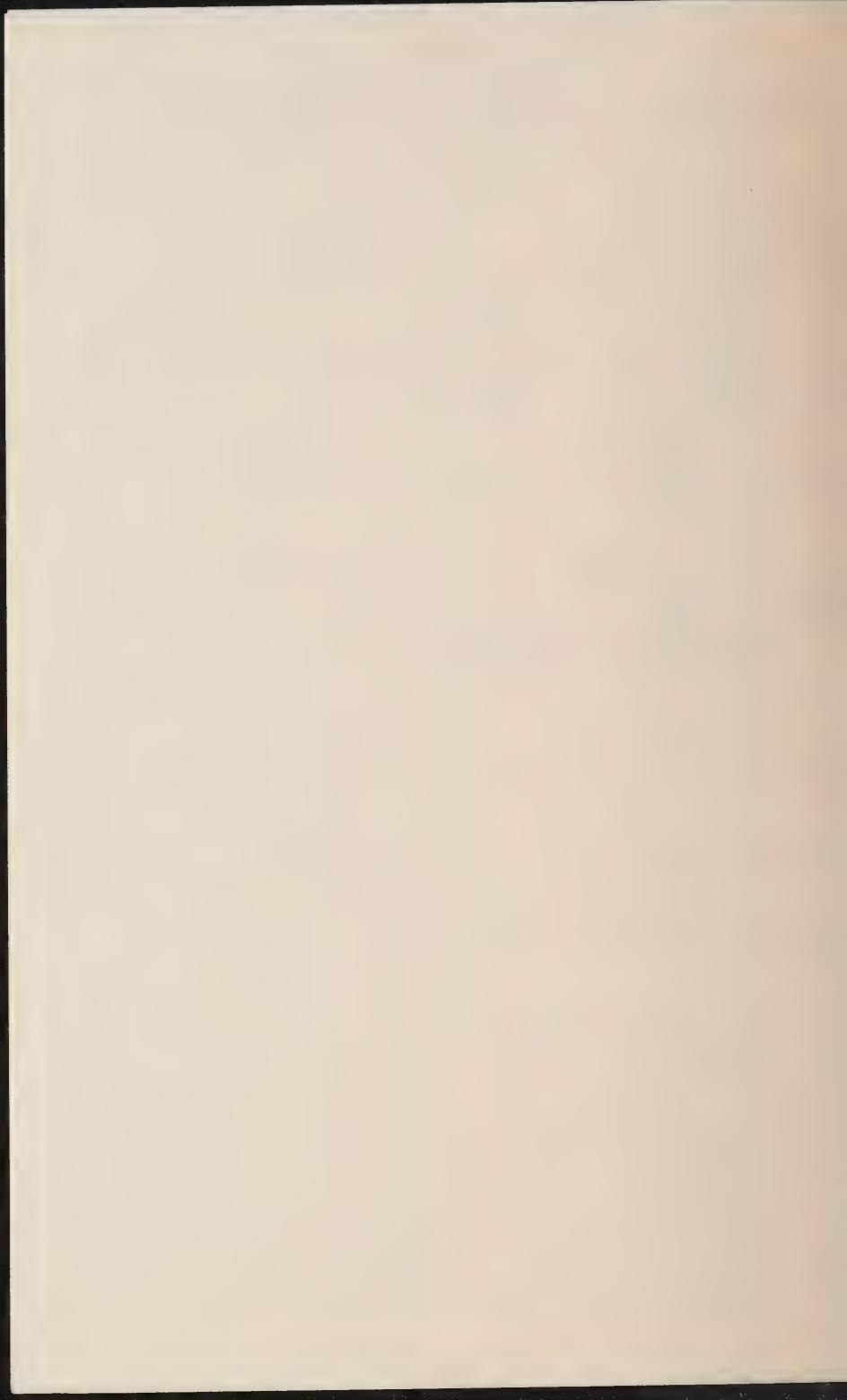


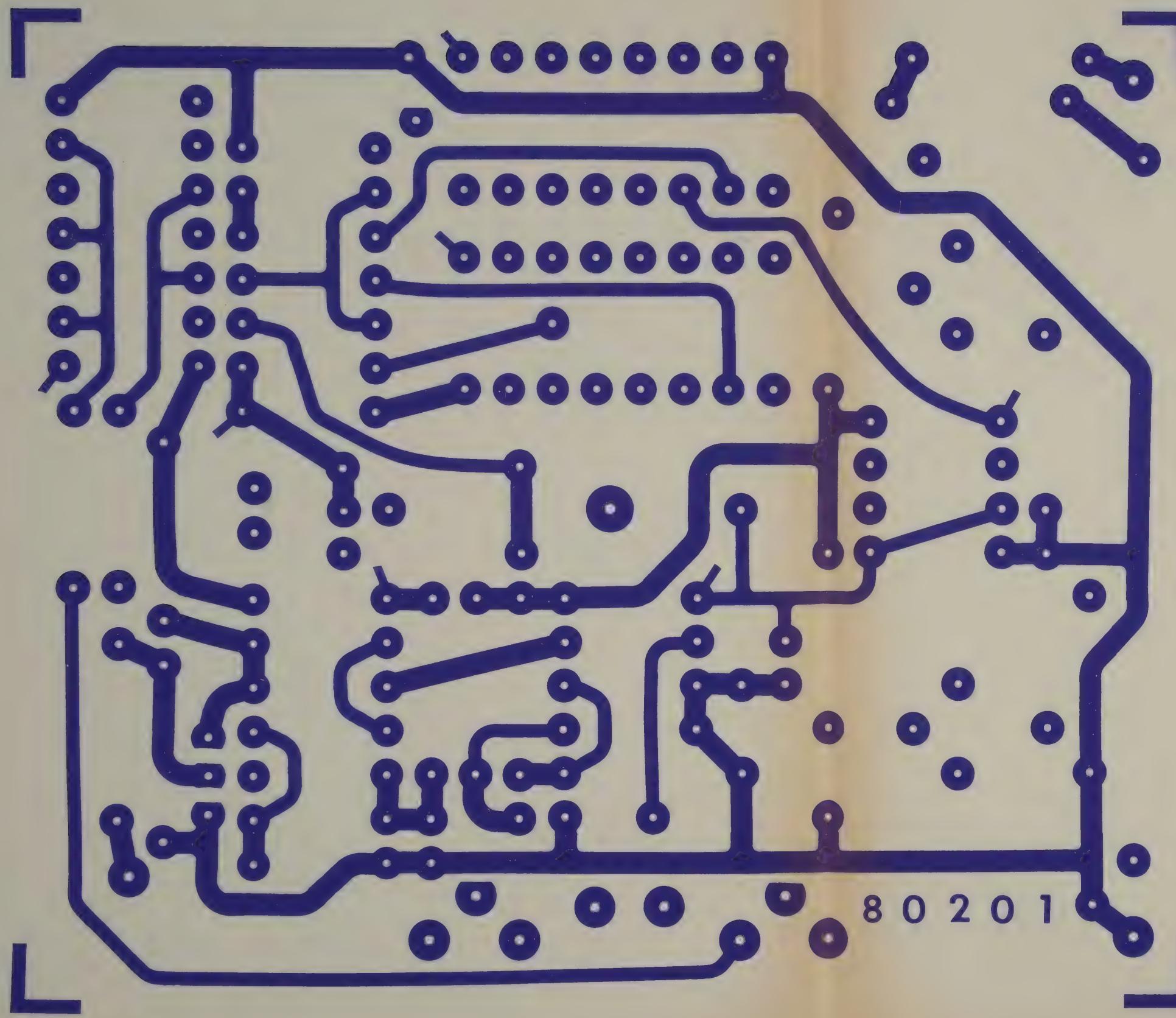
2.60 KEP

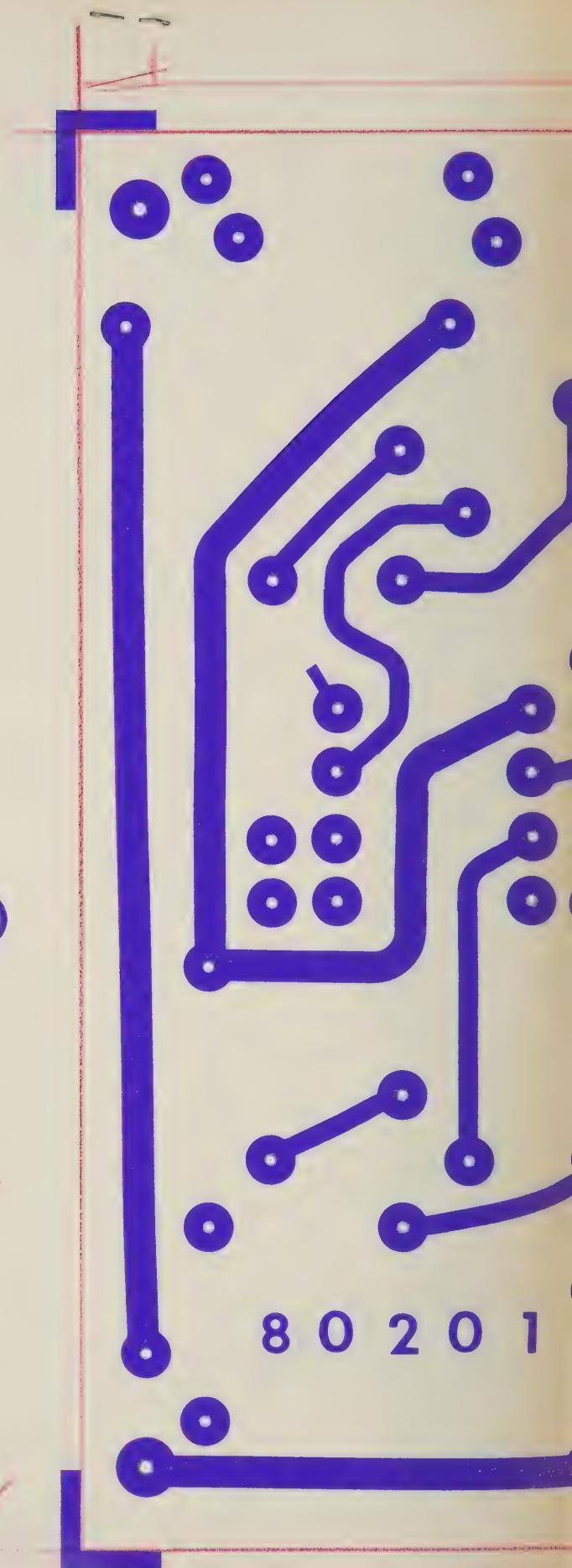


20201 PCB Board

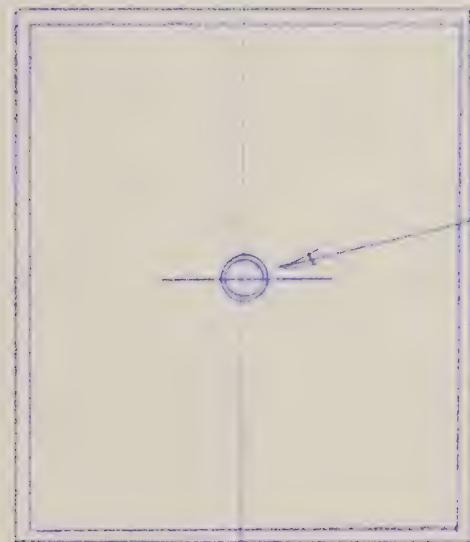
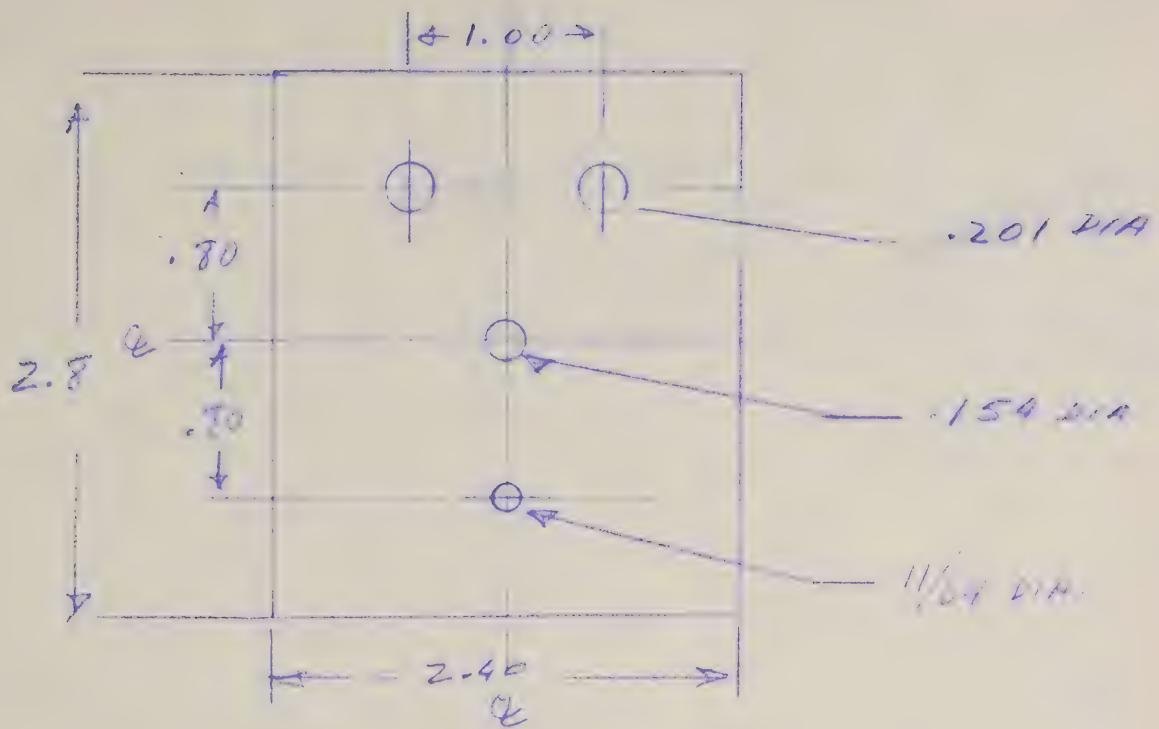
7/15/20







1. TOP DRUG 101863
2. MATERIAL: .032" GLASS EPOXY  
2 OZ. COPPER
3. SOLDER PLATE AND RUSE  
ALL CIRCUITS
4. DRILL ALL HOLES  
.035" (65)
5. HOLE DIMENSIONS AFTER PONTOON



140000 8000

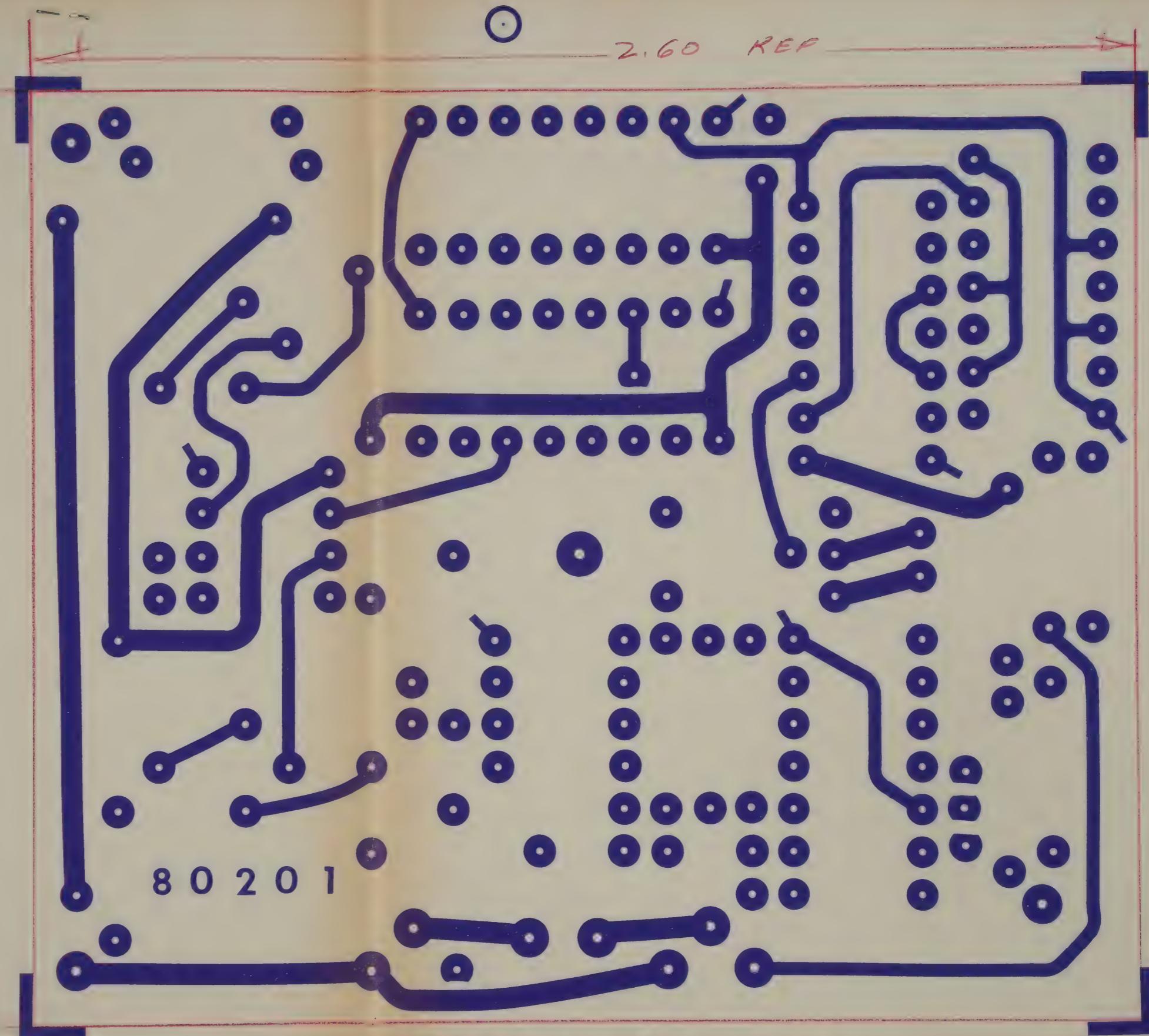
140000 8000 07 2085

Pos. 2400270052

Job No: 101853

5/12/88

2.60 REF



5. HOLE DIMENSIONS AFTER PLATING

DRILL ALL HOLES  
• .035" (65)

6. SOLDER PLATE AND FUSE  
THE SOLDER PLATE

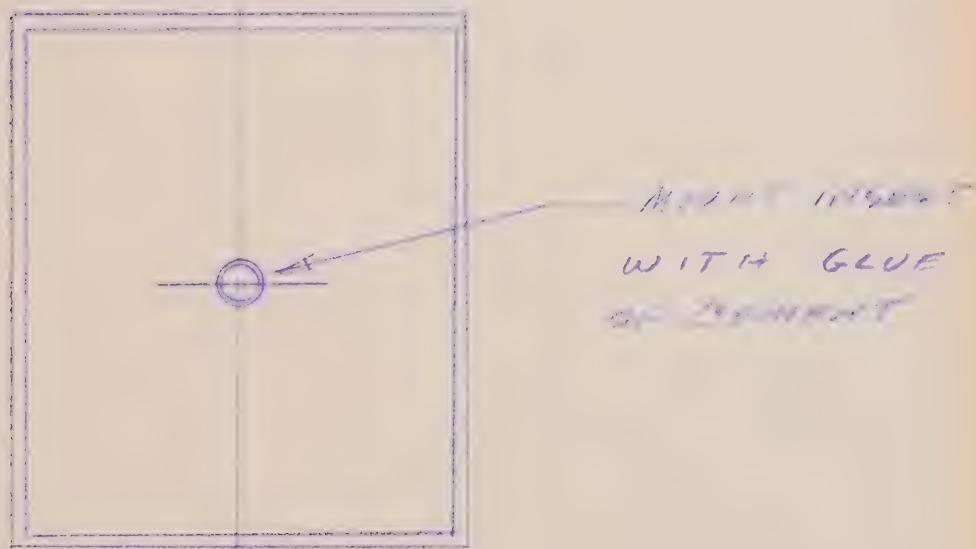
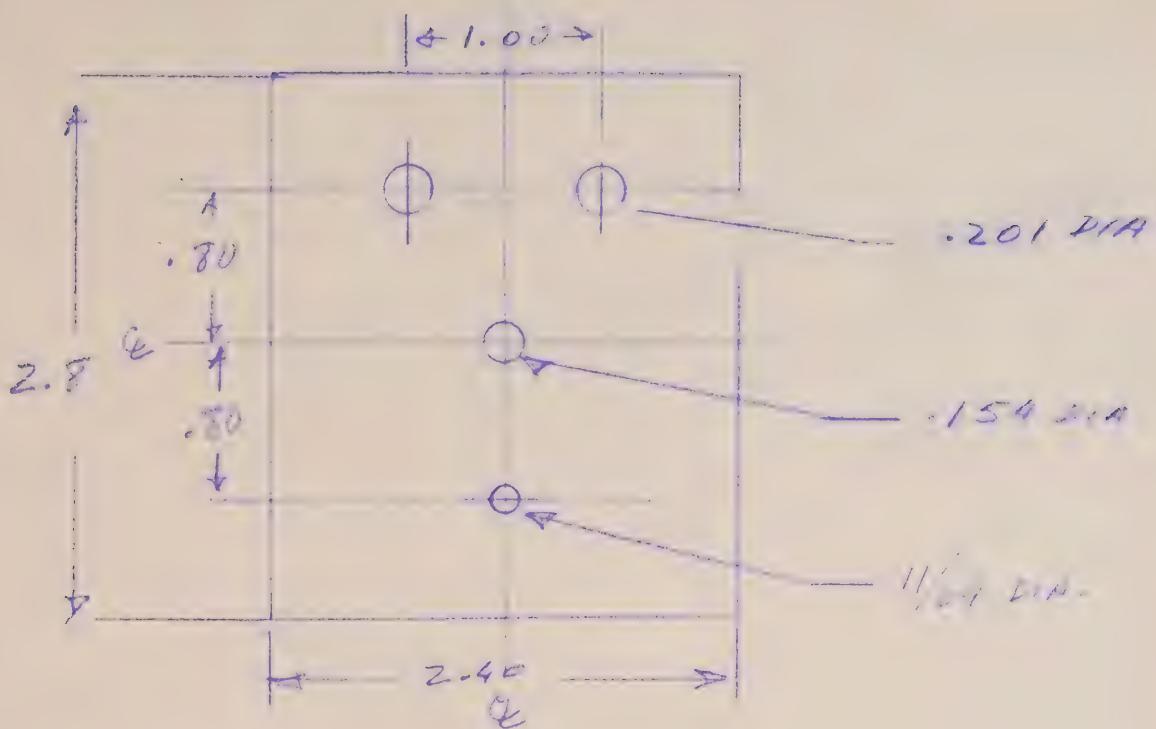
7. MATERIALLY .032" GLASS EPOXY

208. COPPER

8. TOP DRAW 101753

80201 PC BOARD

5/1/85



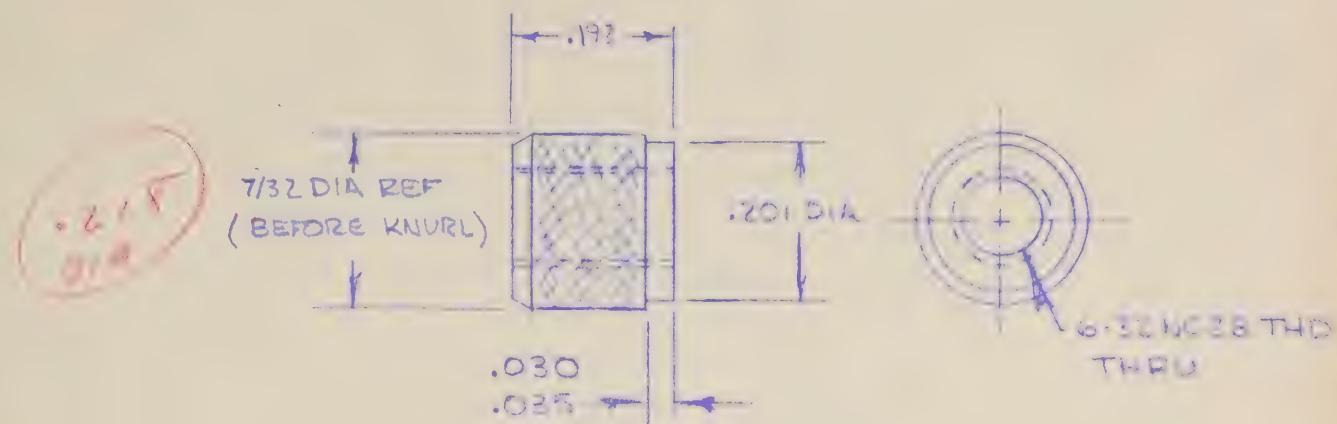
1400027052

MOUNT MOUNT WITH GLUE  
OR EPOXY  
POS: 1400027052

100000:101853

5/12/88





2 MATERIAL: BRASS PER QQ-B-626

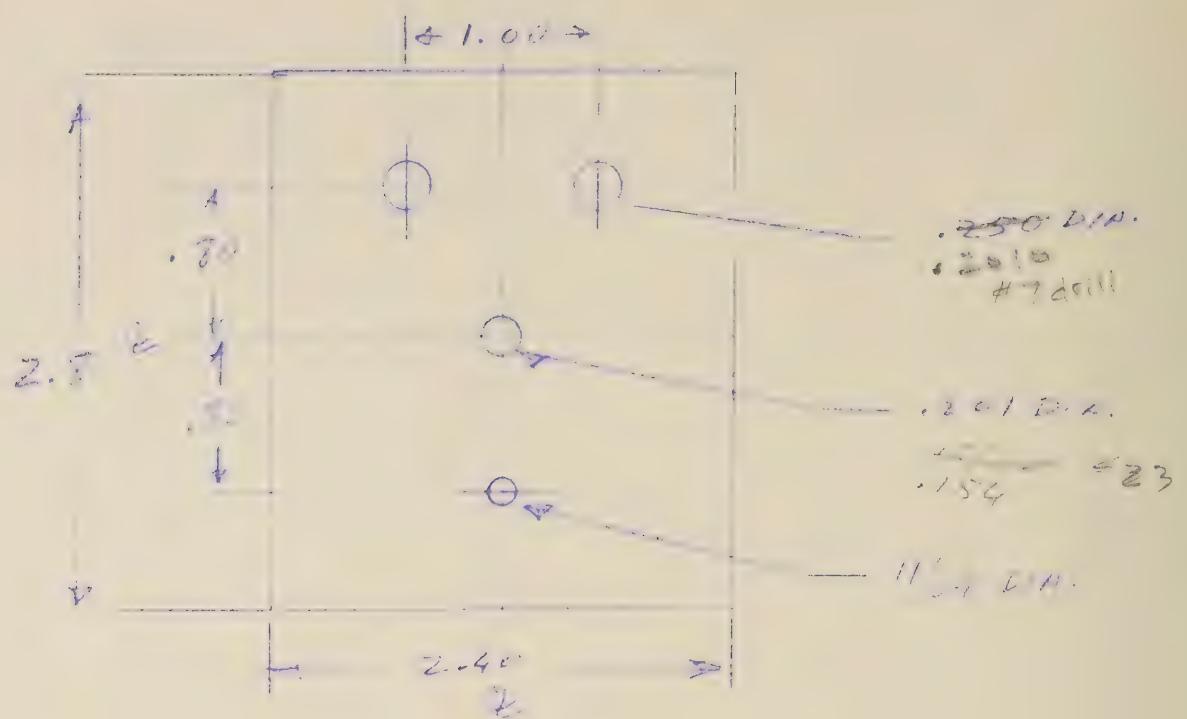
1 TDF DUGI 101118

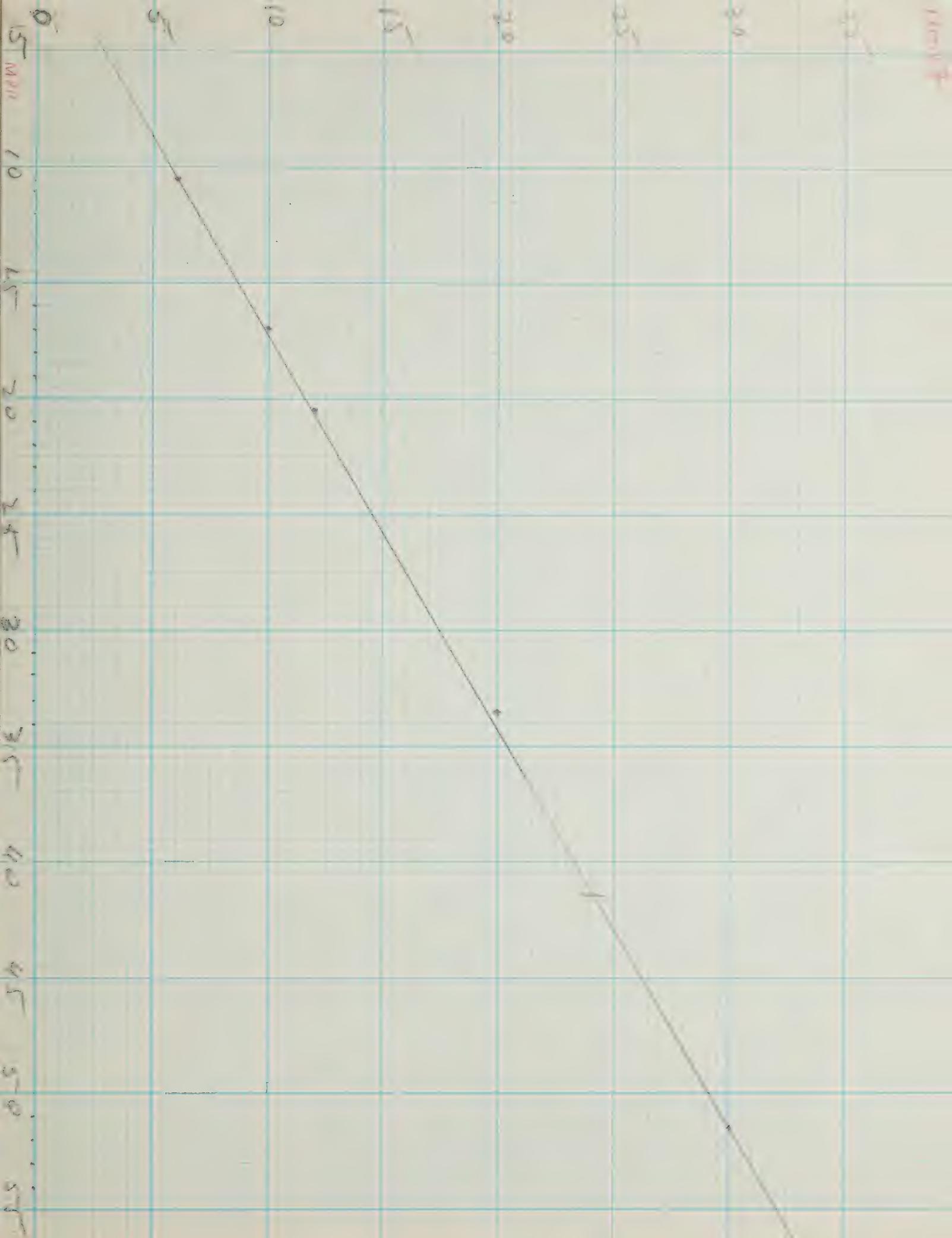
## NOTES.

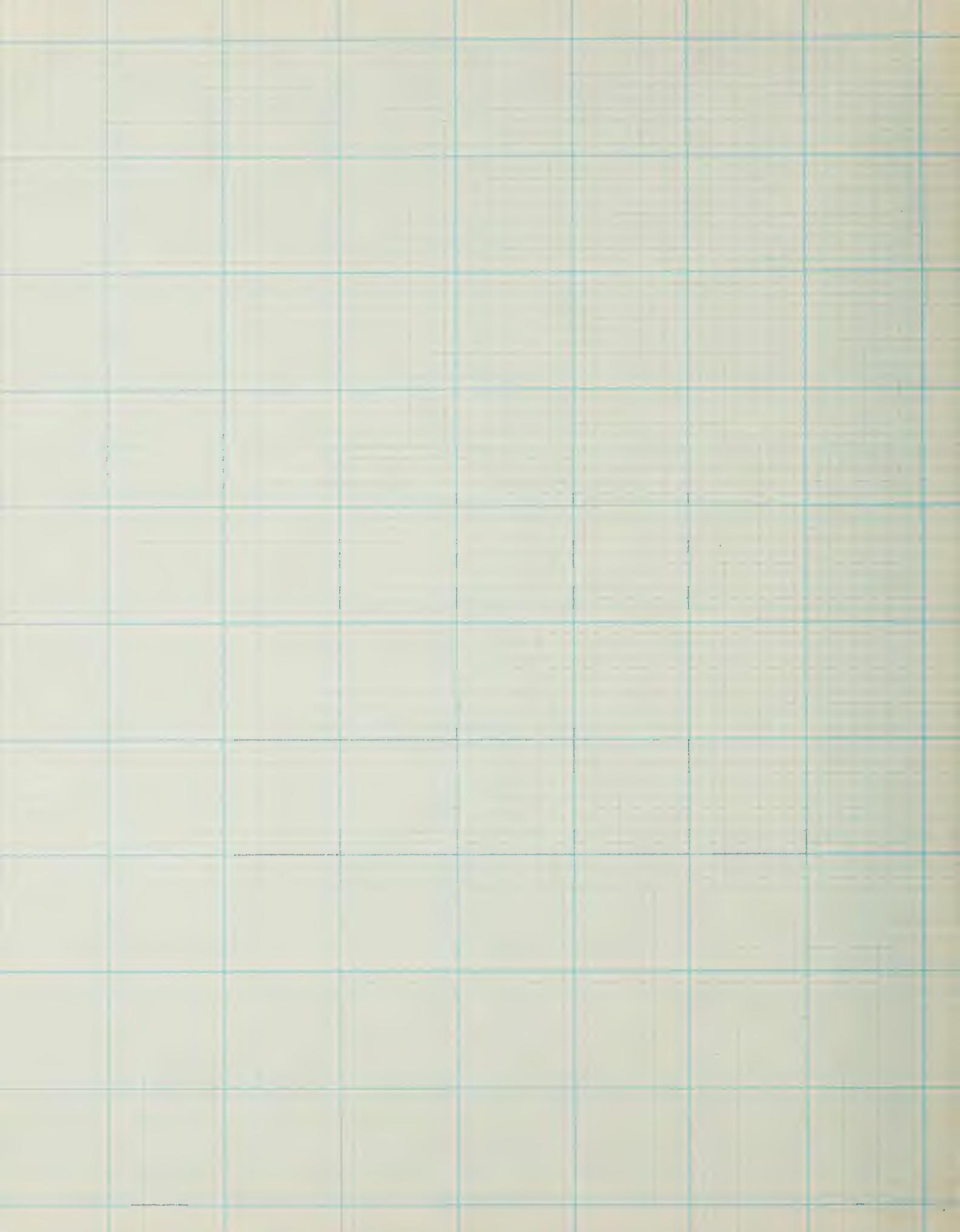
NOTES:	QTY	PART NO.	DESCRIPTION
DIMENSIONS ARE IN INCHES AND AFTER PLATING	DR Cylindrical	1-2773	
CHK <i>Stainless</i>		v-7	
TOLERANCES (unless otherwise specified):	DSGN		
X - .1	PROJ		
XY - .03	REL/T	<i>1.000</i> <i>.995</i>	
XXX - .010			
ANGLES - 0.5			
MACH	APPROVED		
SHRF	<i>R. Peterson</i> <i>13979</i> APPROVED		
	DO NOT SCALE DRAWING		
	SCALE 4:1	SHEET 1 OF 1	REV A











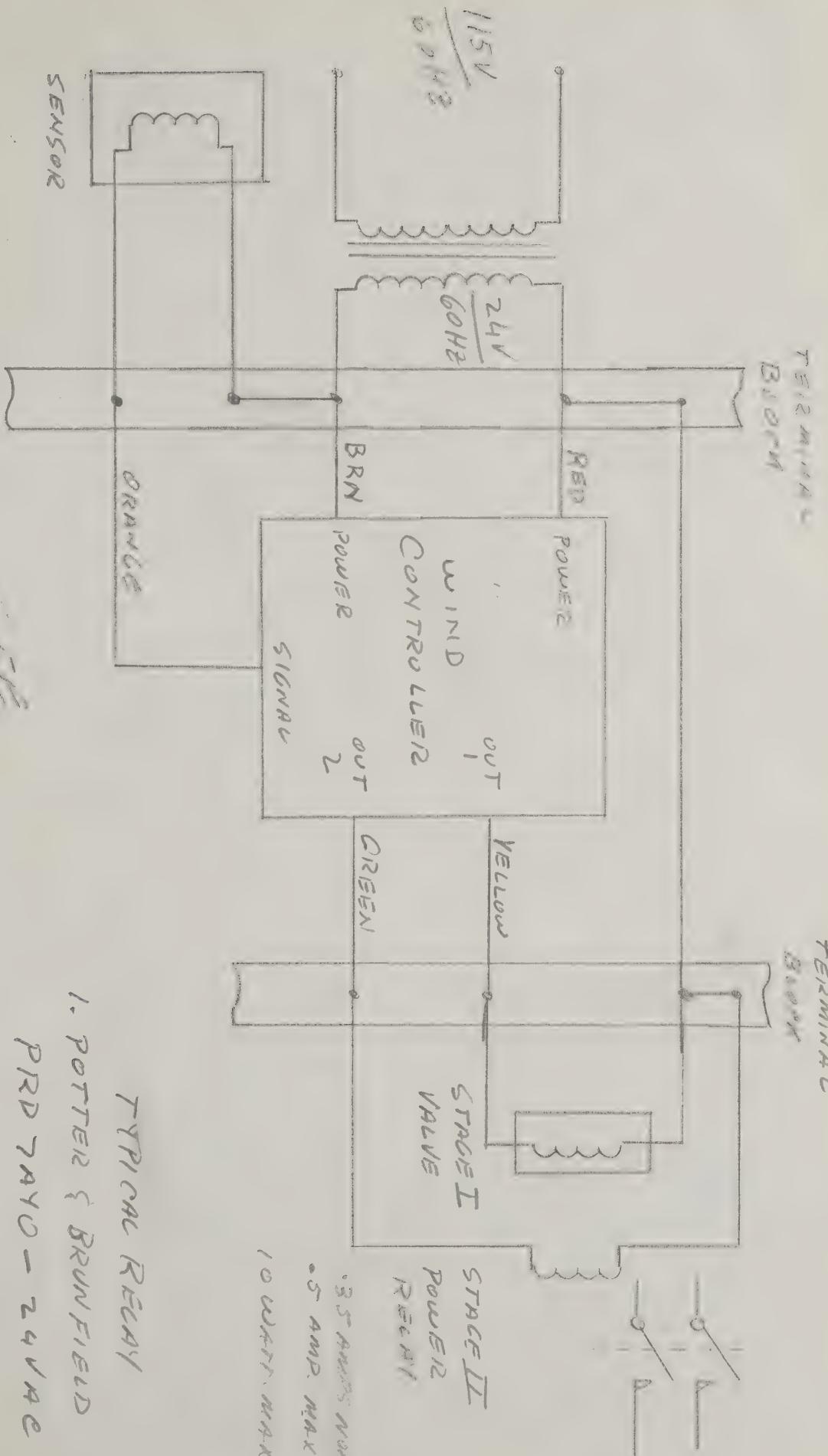
10 min T.D.  
normal 60°

卷之三

1. PORTER, G. M. 1958. *Geological*

202101  
12/12/2021





STAGE I - 5-25 MPH  
10 MIN T.D.  
NORMALLY OFF

STAGE II - 15-45 MPH  
20 MIN T.D.

RESET TIME - 5 seconds

3/18/88

STAGE I - 5-25 MPH  
10 MIN T.D.  
NORMALLY ON

STAGE II - 15-45 MPH  
20 MIN T.D.

WIND  
VALVE

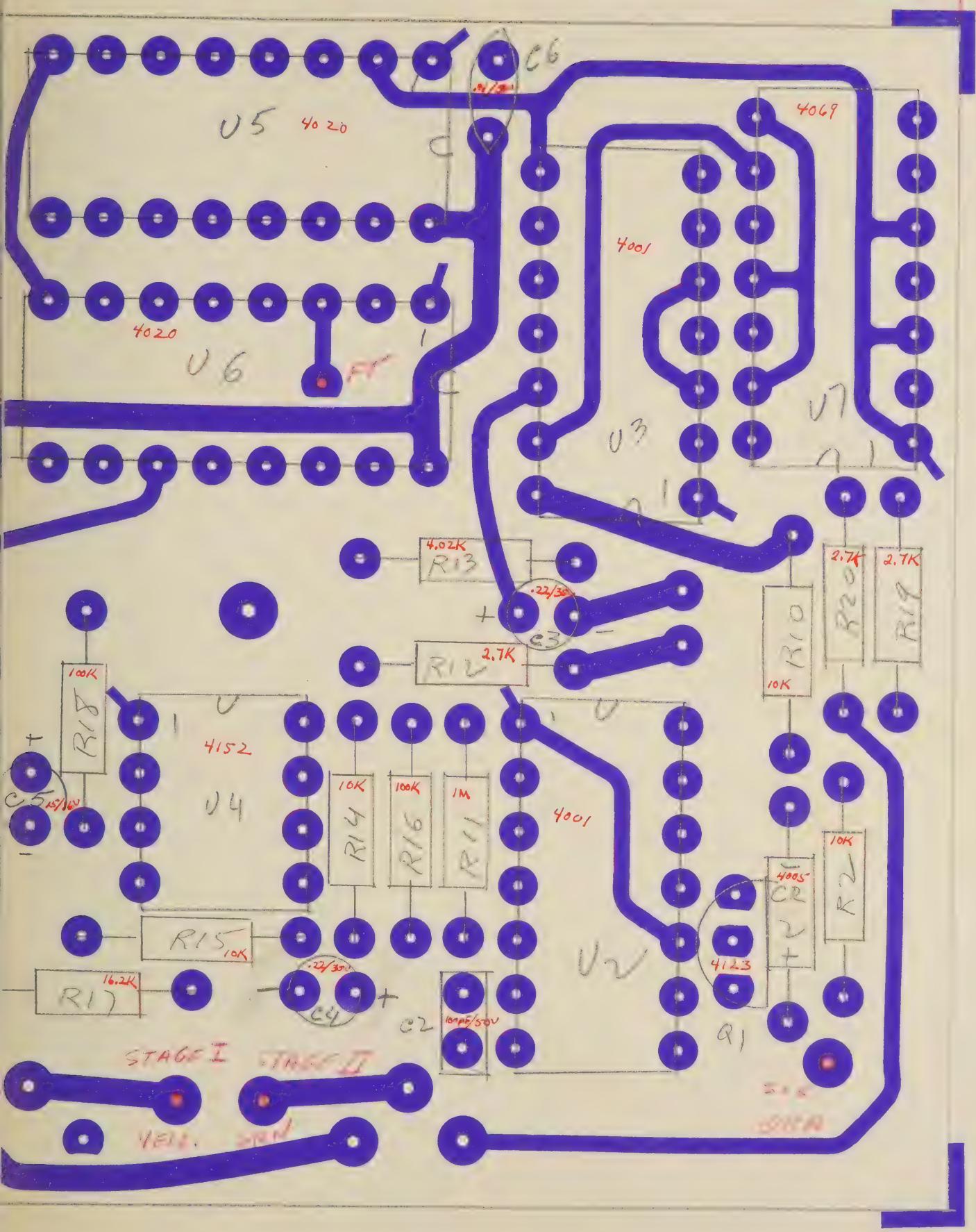
101853

1. POTTER & BRUNFIELD  
PRD7A40-24VAC

2. MANDREL  
W199AX-8

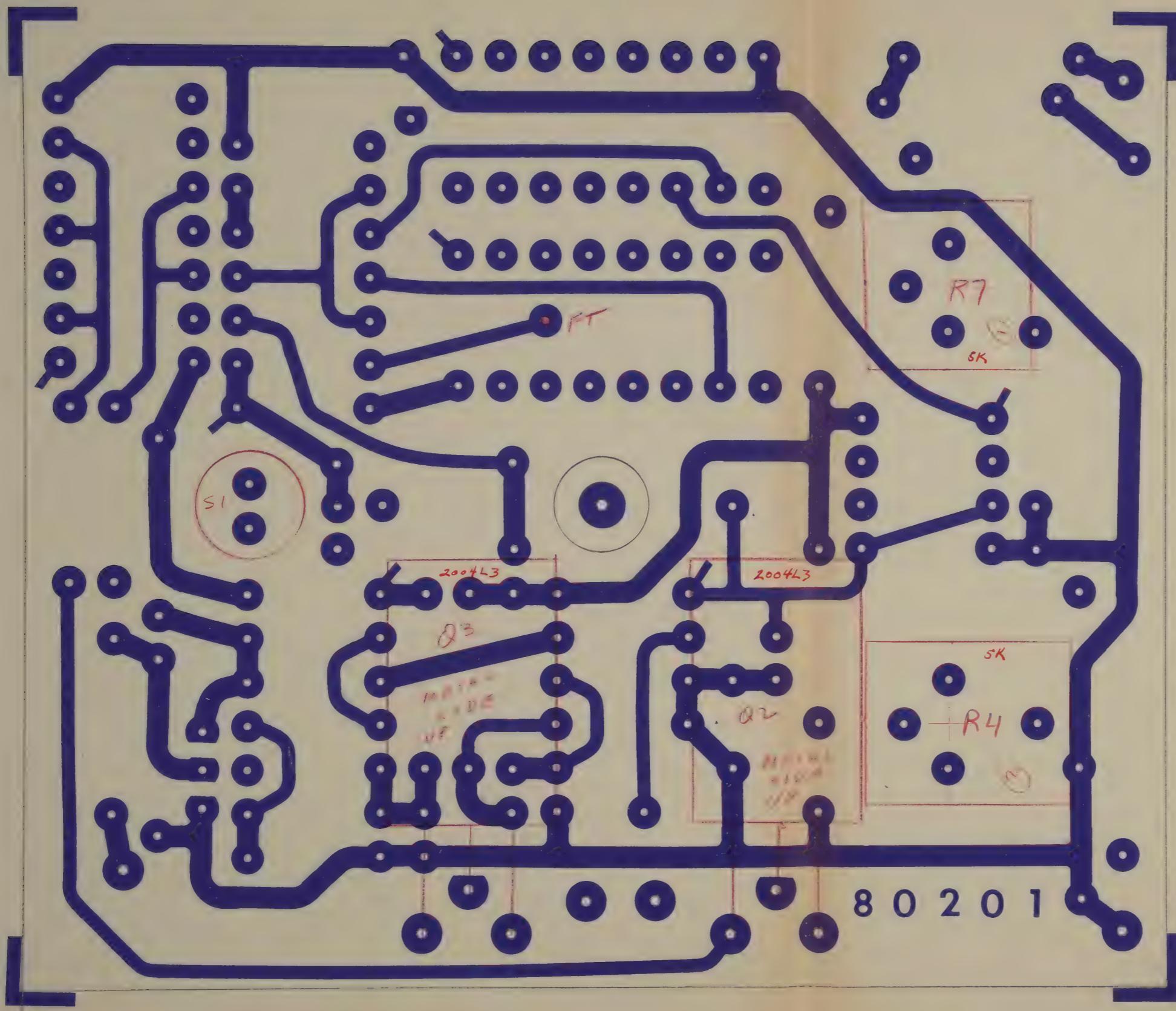
PARCO PLT

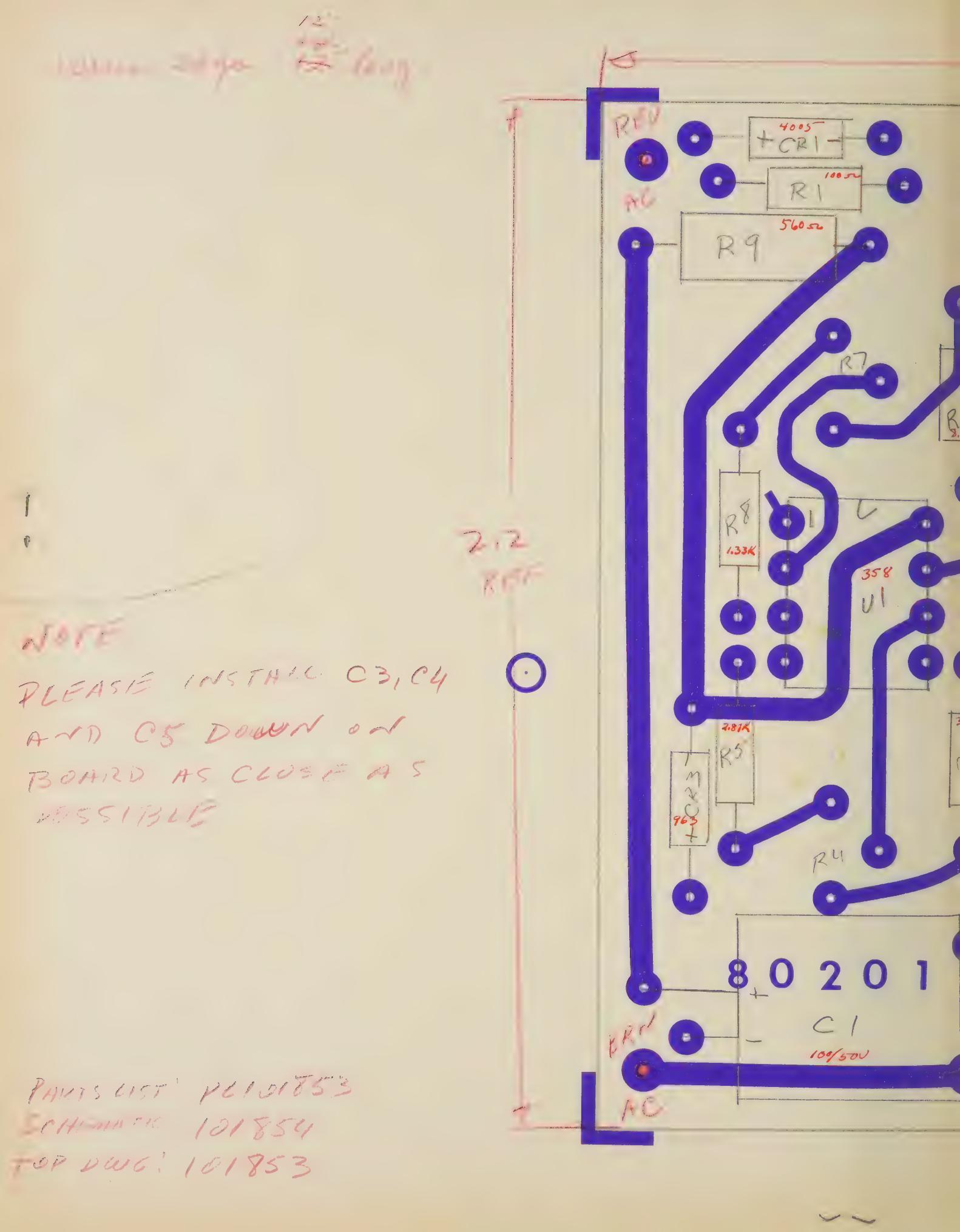




A534 101855 7/1985

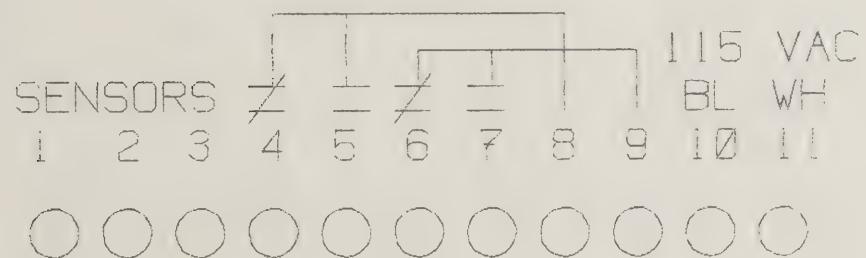
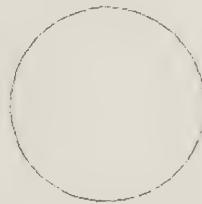
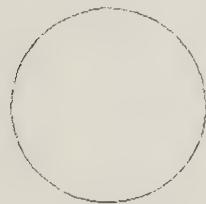


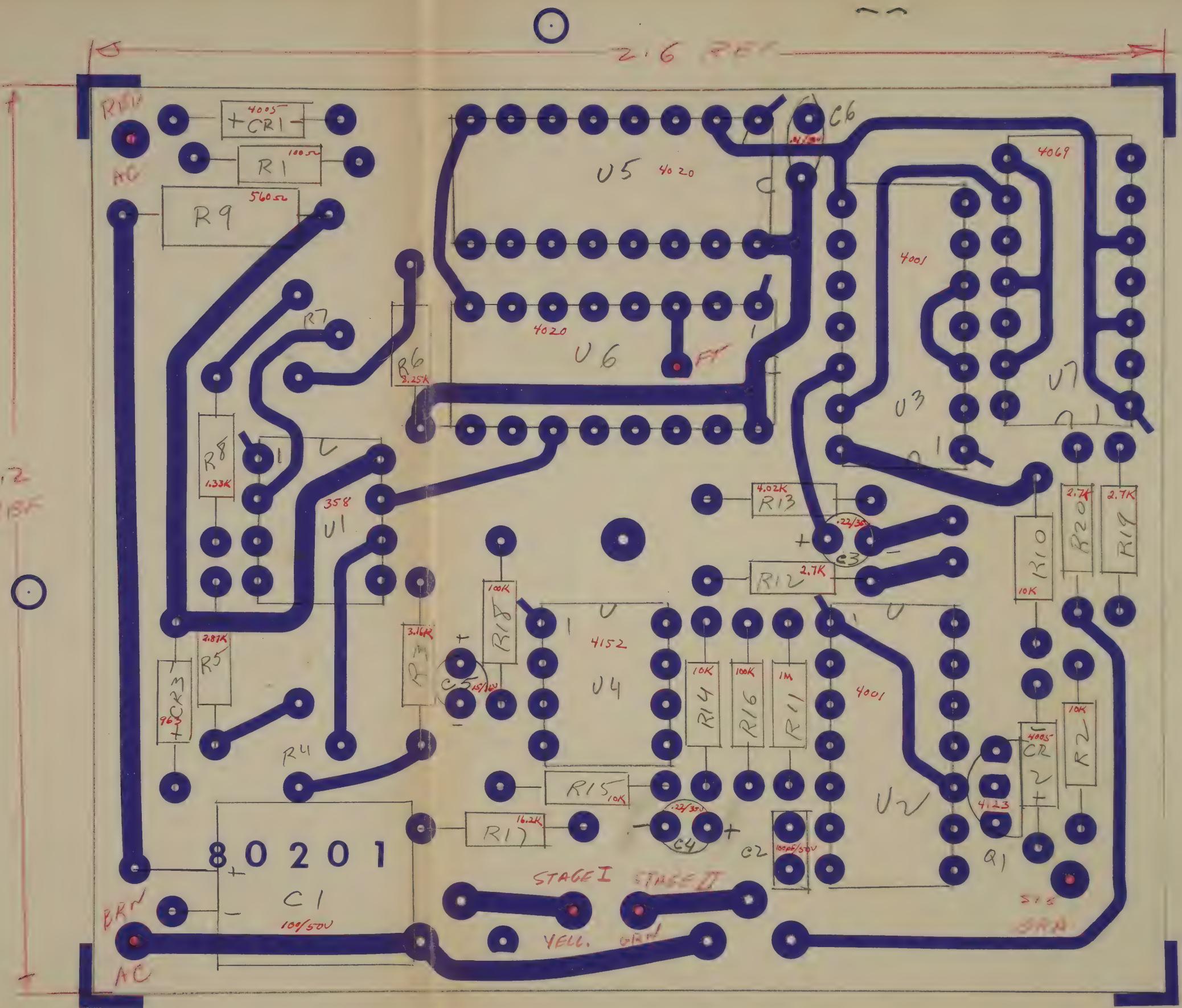




# WIND CONTROL

STAGE 1 | STAGE 2



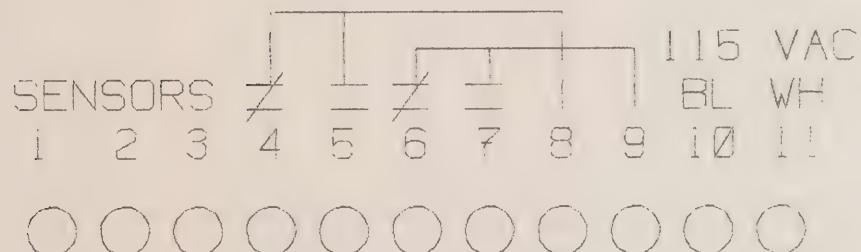
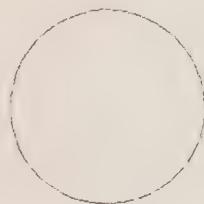
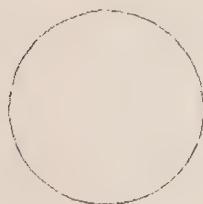


WAVE 1000 P1000  
SCHMIDT 101854  
TOP Dwg: 101853

A501- 101855 5/1/85

# WIND CONTROL

STAGE 1 | STAGE 2







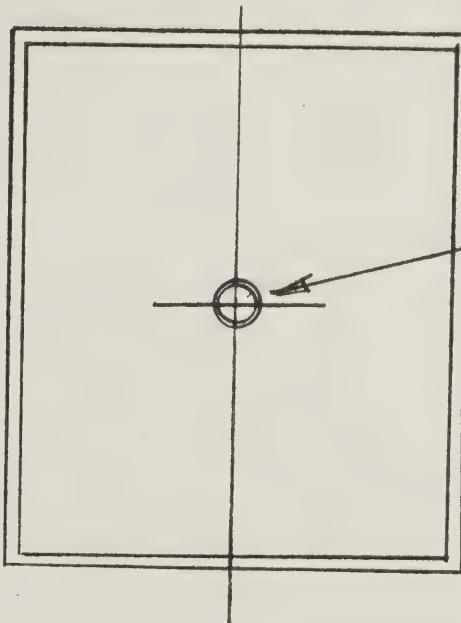
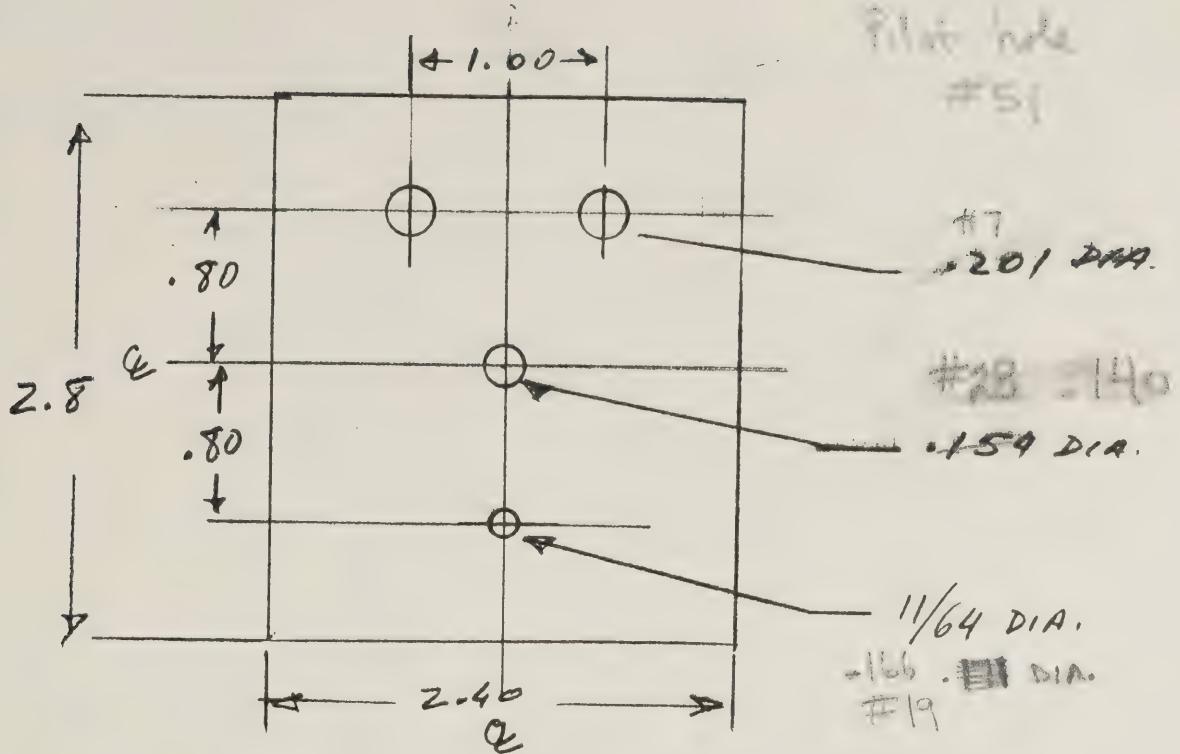


3. ASSEMBLY 101855
2. PARTS LIST: PL 10185
1. TOP DWS 101853

四百一

DIMENSIONS ARE IN INCHES AND AFTER PLATING		DR <i>Carlo Ricci</i>	5/10/88	 <b>Parko</b> ELECTRONICS COMPANY INC., SANTA ANA, CALIF.
TOLERANCES (unless otherwise specified)		CHK		
DSGN				
PROJ				
REL <i>Carlo Ricci</i> 5/10/88				
APPROVED				
APPROVED				
MACH SURF <input checked="" type="checkbox"/>				
DO NOT SCALE DRAWING				





## INSIDE VIEW

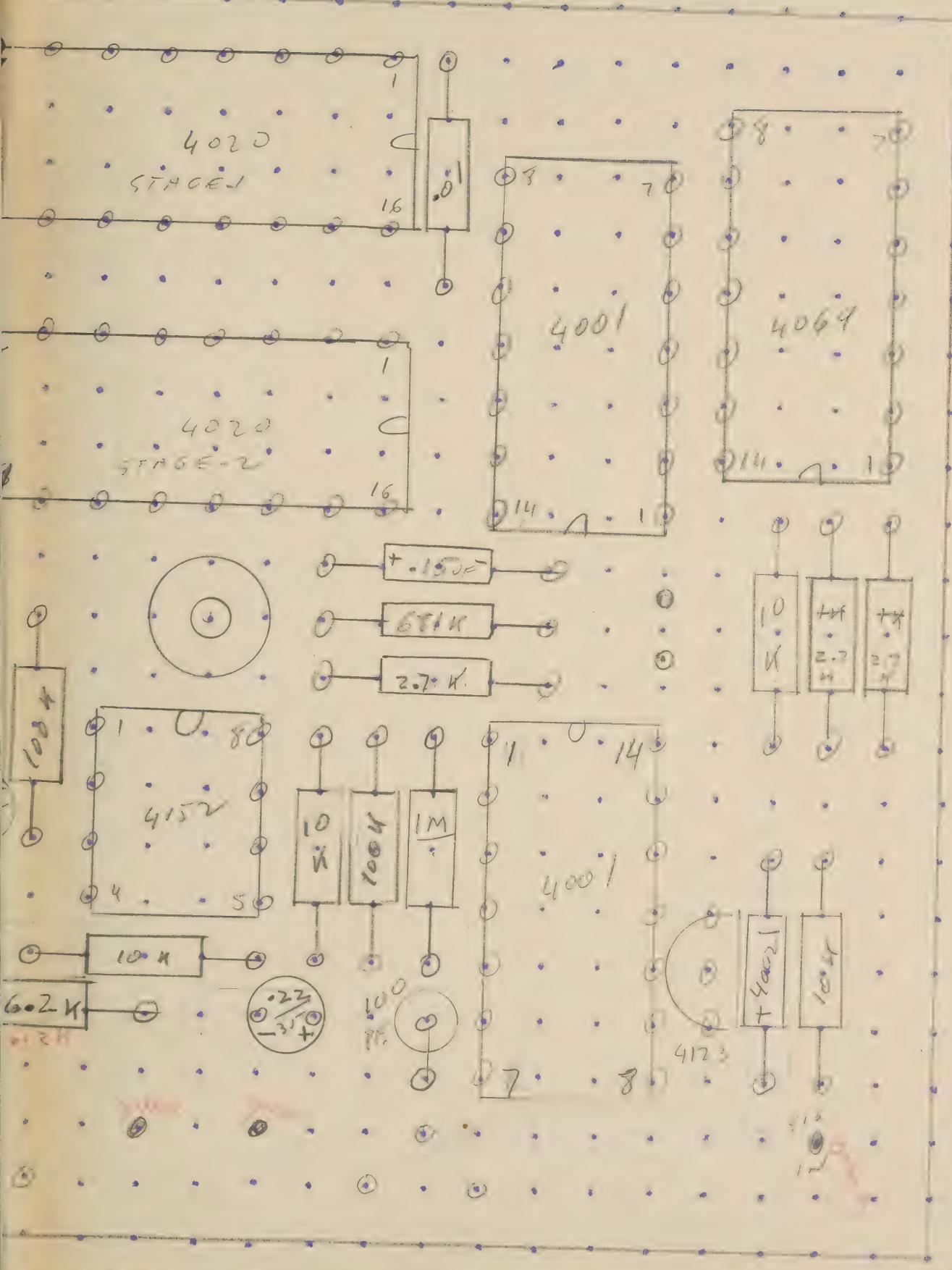
- MOUNT INSERT  
WITH GLUE  
OR CEMENT

MODIFICATION OF CASE  
POS-2400280052

TOP DWG. 101853

5/12/88



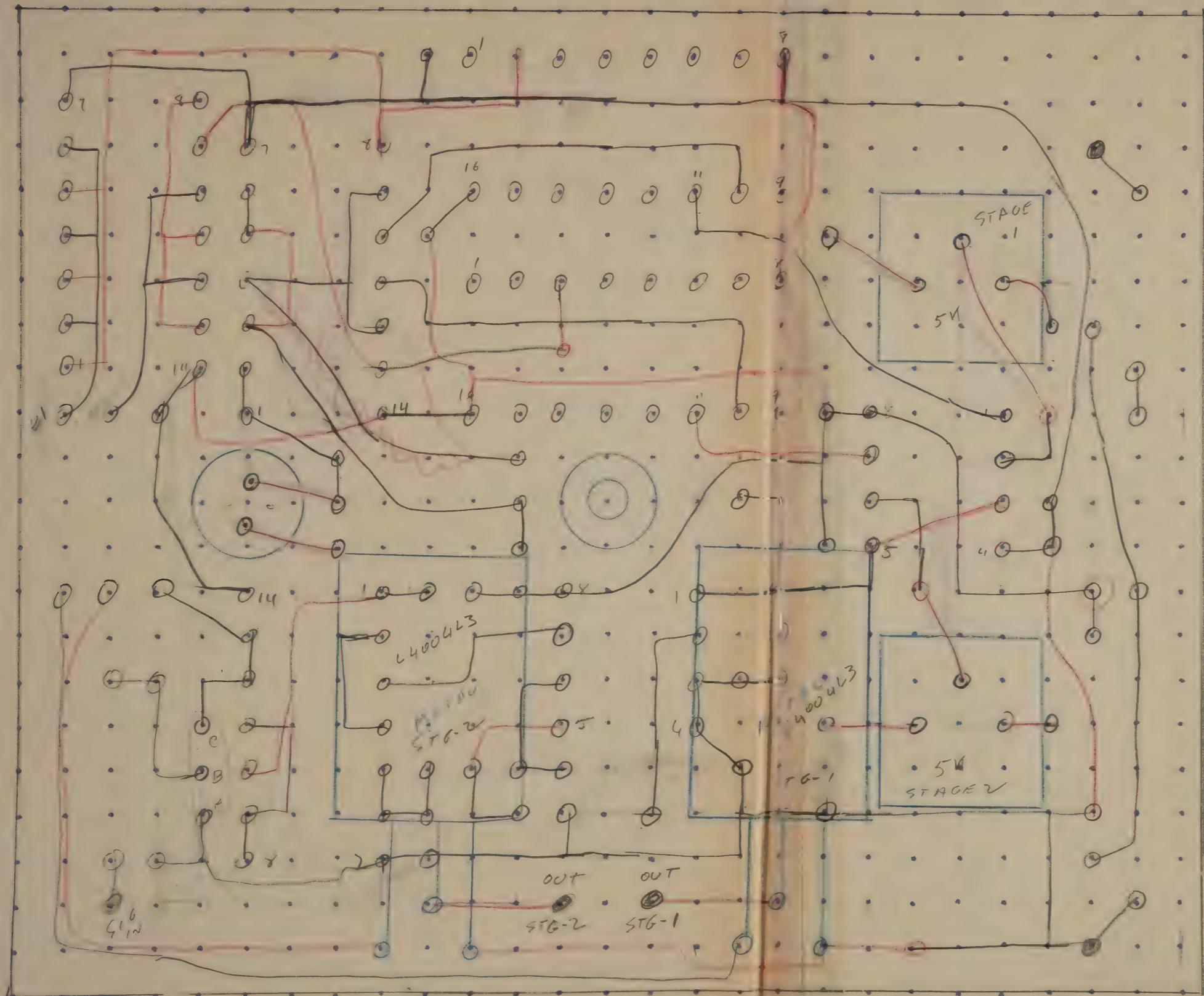


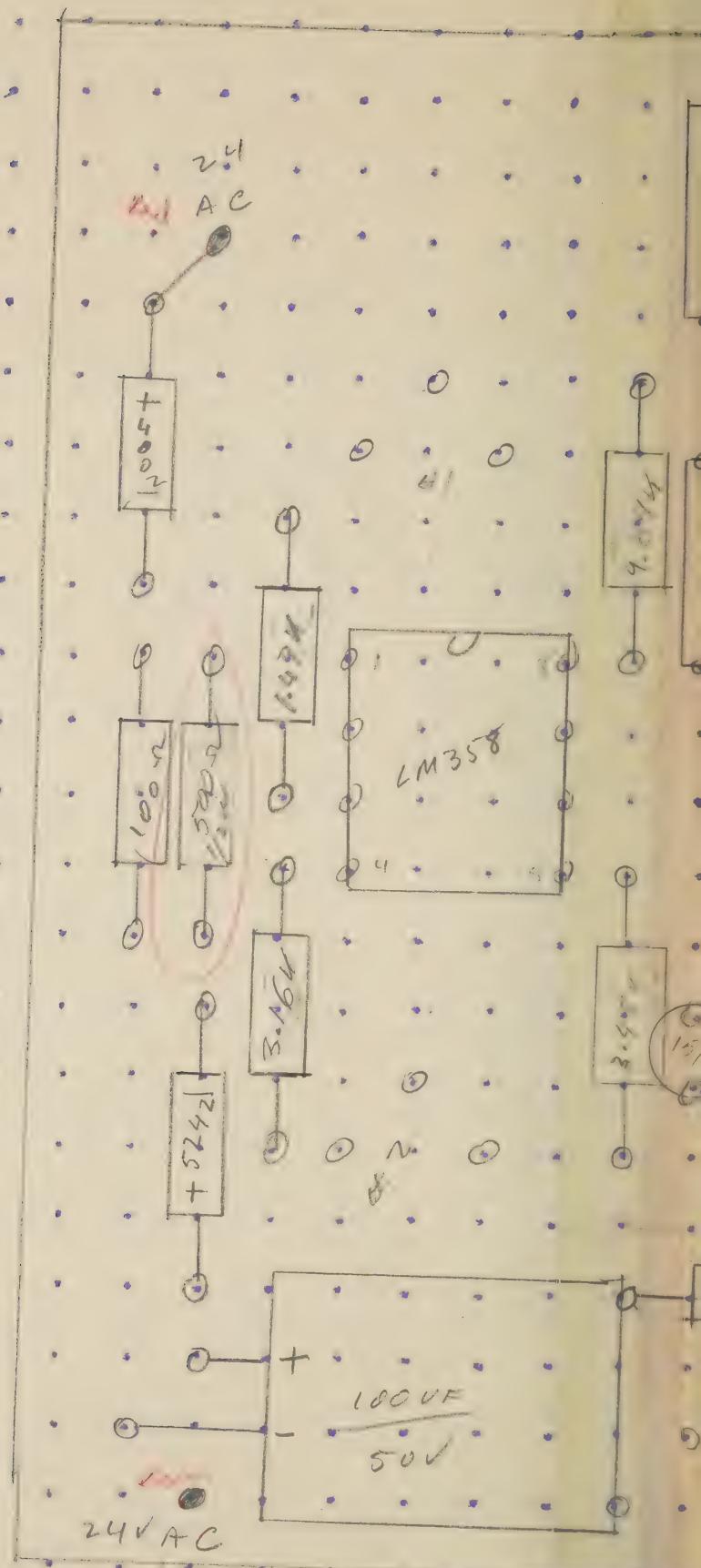
104 853

Emp. 2017-00002  
3/18/87

3/1855







2-12-90

WHEN POWER IS ADDED AND  
042 INPUT - OUTPUT H2  
SHOULD BE ON AND H1 OFF  
IF NOT PRESS RESET.

WITH H2 ON AND H1 OFF  
SLOWLY INCREASE FREQUENCY.

H1 COMES ON AROUND 2.50  
5 HZ.

H2 GOES OFF AROUND 9.00 HZ.  
REDUCE H2 TO 0.98. AND  
PRESS RESET.

H1 GOES OFF IN 5 TO 10 SEC.  
H2 COMES ON IN 10-13 SEC.

---

TURN POT'S CW AND RESET.

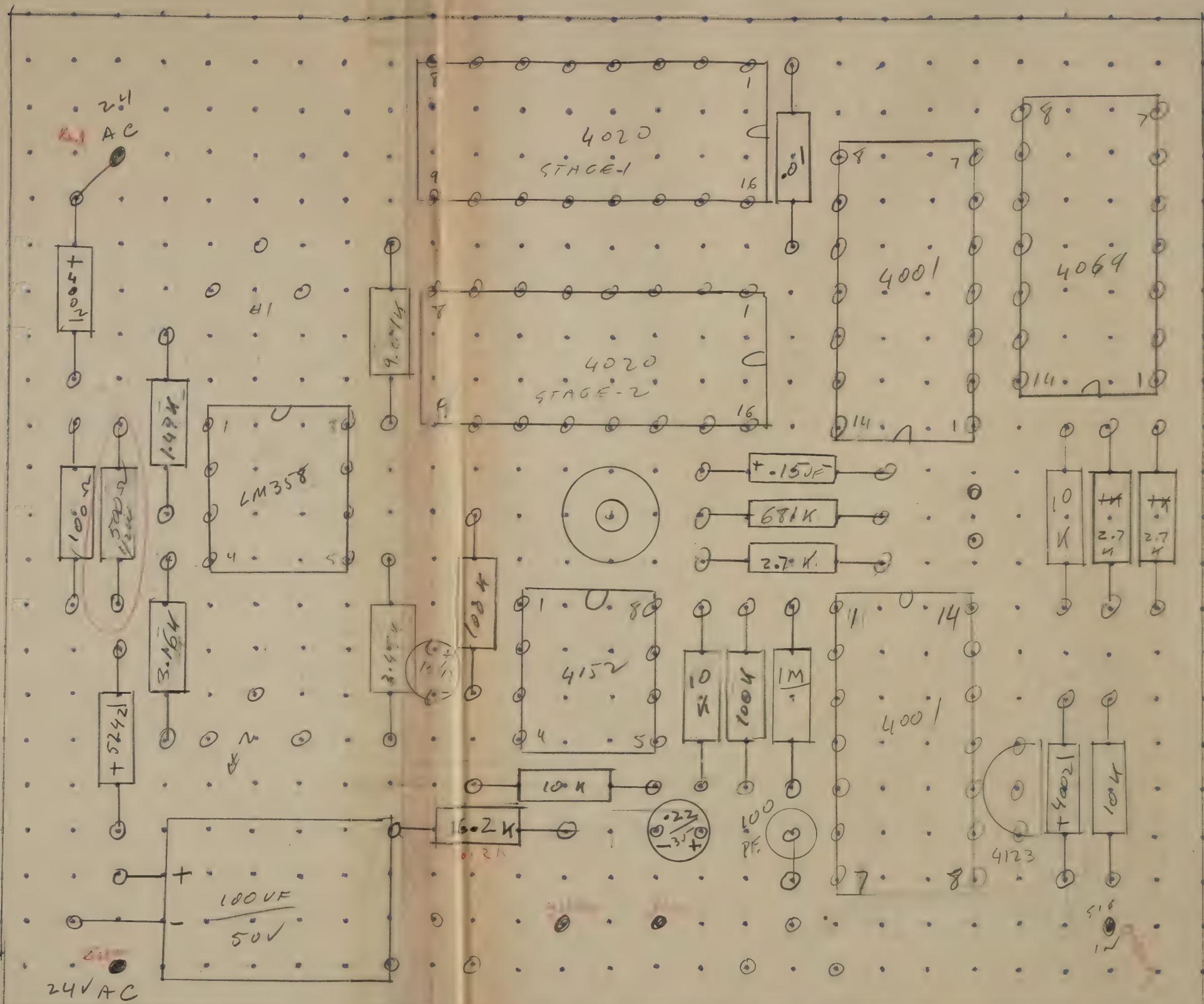
H1 HZ ABOUT 9-12  
H2 HZ ABOUT 21-23

---

TIME SAME AS BEFORE

CHECK

TIME BASE



2-12-90

WHEN POWER IS ADDED AND  
D#2 COMES ON, OUTPUT #2  
SHOULD BE "ON" AND IN "OFF"  
IF NOT PRESS RESET.

WITH #2 "ON" AND #1 "OFF"  
SLOWEST INCREASE FREQUENCY  
#1 COMES ON QUICK 2 TO  
5 HZ.

#2 COMES ON AND FREQUENCY  
REACHES 100% IN 10-13 SEC.  
PRESS BUTTOD,  
#1 GOES OFF IN 5-20 SEC.  
#2 COMES ON IN 10-13 SEC.

TURN 7075 CW AND ADD POWER.

#1 HZ ABOUT 9-12  
#2 HZ ABOUT 21-23

AT TIME SAME AS BEFORE

CHECK

TIME BASIS



WHEN WIND COMES  
UP PAST THE TIP  
POINT IT RESETS  
THE COUNTER AND TURNS  
STAGE I "ON" AND STAGE  
II OFF.

AFTER THE WIND COMES  
DOWN BELOW THE TIP  
POINT THE TIME  
STARTS - 10 OR 20 sec  
BEFORE TURNING I ON  
AND II ON



WITH POTS ~~OPEN~~  
TURN POT ON - PLEASE  
INPUT OH8. -

#1            #2

PRESS BUTTON

#1 ON APPROX 2 SEC

#2 ON        "    2 1/4 "

SCOWER BRING FREQ UP  
UNTIL #1 IS ON IN 3 1/2.  
AND #2 IS OFF IN 9 1/2.

PRESS POT #1 REC. AFTER  
7 SEC.  
#2 AFTER 10 SEC

TURN POTS ON AND REPEAT

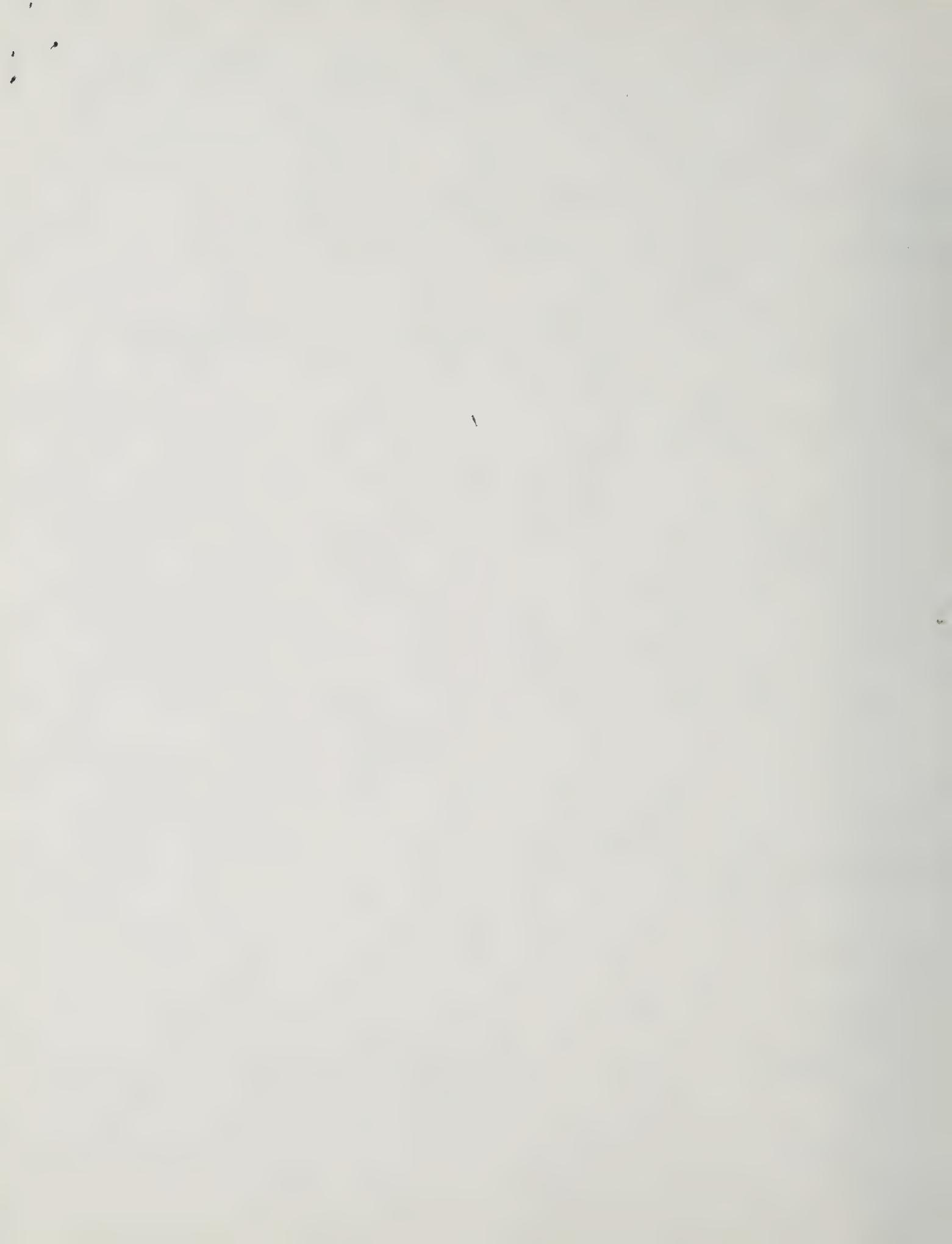
THIS IS N.G.

2-12-90



Date 2023-01-23 Parko P/N 94152-0010 Qty. 1 S/C 1

Ref. Des.	P/N	Description	Unit Qty	Total Qty	Insp.	Manufacturer	Parko PO	Notes
U2-U3	MC14001BCP	Dual NOR Gate IC	1	1	Not. of 2 Equiv. not			
U4	RC4152AB	Converteor IC	2	2	Not. of 2 Equiv. not			
U5-U6	MC14020BCP	Counter 5:0	2	2	Not. of 2 Equiv. not			
U7	MC14069BCP	Hex Inverter IC	1	1	Not. of 2 Equiv. not			



Date

Parko P/N 101853

Qty. \_\_\_\_\_ S/O \_\_\_\_\_

Ref. Des.	P/N	Description	Unit Qty	Total Qty	Insp	Parko PO	Notes
R1	2N2222	TRANSISTOR	1	1			
R2	2N2222	TRANSISTOR	2	2			TEC902 (24000000)
R3	10000	RES.	1	1			
R4	10000	RES.	1	1			
R5	RMS5D2821F	RES.	2,82	1			
R6	RMS5D8251C	RES.	8,254	1			
R7	32W305	RES.	5W	1			W0500
R8	10000	RES.	100W	1			
R9	10000	RES.	100W	1			
R10	10000	RES.	100W	1			
R11	10000	RES.	100W	1			
R12	10000	RES.	100W	1			
R13	10000	RES.	100W	1			
R14	10000	RES.	100W	1			
R15	10000	RES.	100W	1			
R16	10000	RES.	100W	1			
R17	10000	RES.	100W	1			
R18	10000	RES.	100W	1			
R19	10000	RES.	100W	1			
R20	10000	RES.	100W	1			
R21	10000	RES.	100W	1			
R22	10000	RES.	100W	1			
R23	10000	RES.	100W	1			
R24	10000	RES.	100W	1			
R25	10000	RES.	100W	1			
R26	10000	RES.	100W	1			
R27	10000	RES.	100W	1			
R28	10000	RES.	100W	1			
R29	10000	RES.	100W	1			
R30	10000	RES.	100W	1			
R31	10000	RES.	100W	1			
R32	10000	RES.	100W	1			
R33	10000	RES.	100W	1			
R34	10000	RES.	100W	1			
R35	10000	RES.	100W	1			
R36	10000	RES.	100W	1			
R37	10000	RES.	100W	1			
R38	10000	RES.	100W	1			
R39	10000	RES.	100W	1			
R40	10000	RES.	100W	1			
R41	10000	RES.	100W	1			
R42	10000	RES.	100W	1			
R43	10000	RES.	100W	1			
R44	10000	RES.	100W	1			
R45	10000	RES.	100W	1			
R46	10000	RES.	100W	1			
R47	10000	RES.	100W	1			
R48	10000	RES.	100W	1			
R49	10000	RES.	100W	1			
R50	10000	RES.	100W	1			
R51	10000	RES.	100W	1			
R52	10000	RES.	100W	1			
R53	10000	RES.	100W	1			
R54	10000	RES.	100W	1			
R55	10000	RES.	100W	1			
R56	10000	RES.	100W	1			
R57	10000	RES.	100W	1			
R58	10000	RES.	100W	1			
R59	10000	RES.	100W	1			
R60	10000	RES.	100W	1			
R61	10000	RES.	100W	1			
R62	10000	RES.	100W	1			
R63	10000	RES.	100W	1			
R64	10000	RES.	100W	1			
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R66	10000	RES.	100W	1			
R67	10000	RES.	100W	1			
R68	10000	RES.	100W	1			
R69	10000	RES.	100W	1			
R70	10000	RES.	100W	1			
R71	10000	RES.	100W	1			
R72	10000	RES.	100W	1			
R73	10000	RES.	100W	1			
R74	10000	RES.	100W	1			
R75	10000	RES.	100W	1			
R76	10000	RES.	100W	1			
R77	10000	RES.	100W	1			
R78	10000	RES.	100W	1			
R79	10000	RES.	100W	1			
R80	10000	RES.	100W	1			
R81	10000	RES.	100W	1			
R82	10000	RES.	100W	1			
R83	10000	RES.	100W	1			
R84	10000	RES.	100W	1			
R85	10000	RES.	100W	1			
R86	10000	RES.	100W	1			
R87	10000	RES.	100W	1			
R88	10000	RES.	100W	1			
R89	10000	RES.	100W	1			
R90	10000	RES.	100W	1			
R91	10000	RES.	100W	1			
R92	10000	RES.	100W	1			
R93	10000	RES.	100W	1			
R94	10000	RES.	100W	1			
R95	10000	RES.	100W	1			
R96	10000	RES.	100W	1			
R97	10000	RES.	100W	1			
R98	10000	RES.	100W	1			
R99	10000	RES.	100W	1			
R100	10000	RES.	100W	1			
R101	10000	RES.	100W	1			
R102	10000	RES.	100W	1			
R103	10000	RES.	100W	1			
R104	10000	RES.	100W	1			
R105	10000	RES.	100W	1			
R106	10000	RES.	100W	1			
R107	10000	RES.	100W	1			
R108	10000	RES.	100W	1			
R109	10000	RES.	100W	1			
R110	10000	RES.	100W	1			
R111	10000	RES.	100W	1			
R112	10000	RES.	100W	1			
R113	10000	RES.	100W	1			
R114	10000	RES.	100W	1			
R115	10000	RES.	100W	1			
R116	10000	RES.	100W	1			
R117	10000	RES.	100W	1			
R118	10000	RES.	100W	1			
R119	10000	RES.	100W	1			
R120	10000	RES.	100W	1			
R121	10000	RES.	100W	1			
R122	10000	RES.	100W	1			
R123	10000	RES.	100W	1			
R124	10000	RES.	100W	1			
R125	10000	RES.	100W	1			
R126	10000	RES.	100W	1			
R127	10000	RES.	100W	1			
R128	10000	RES.	100W	1			
R129	10000	RES.	100W	1			
R130	10000	RES.	100W	1			
R131	10000	RES.	100W	1			
R132	10000	RES.	100W	1			
R133	10000	RES.	100W	1			
R134	10000	RES.	100W	1			
R135	10000	RES.	100W	1			
R136	10000	RES.	100W	1			
R137	10000	RES.	100W	1			
R138	10000	RES.	100W	1			
R139	10000	RES.	100W	1			
R140	10000	RES.	100W	1			
R141	10000	RES.	100W	1			
R142	10000	RES.	100W	1			
R143	10000	RES.	100W	1			
R144	10000	RES.	100W	1			
R145	10000	RES.	100W	1			
R146	10000	RES.	100W	1			
R147	10000	RES.	100W	1			
R148	10000	RES.	100W	1			
R149	10000	RES.	100W	1			
R150	10000	RES.	100W	1			
R151	10000	RES.	100W	1			
R152	10000	RES.	100W	1			
R153	10000	RES.	100W	1			
R154	10000	RES.	100W	1			
R155	10000	RES.	100W	1			
R156	10000	RES.	100W	1			
R157	10000	RES.	100W	1			
R158	10000	RES.	100W	1			
R159	10000	RES.	100W	1			
R160	10000	RES.	100W	1			
R161	10000	RES.	100W	1			
R162	10000	RES.	100W	1			
R163	10000	RES.	100W	1			
R164	10000	RES.	100W	1			
R165	10000	RES.	100W	1			
R166	10000	RES.	100W	1			
R167	10000	RES.	100W	1			
R168	10000	RES.	100W	1			
R169	10000	RES.	100W	1			
R170	10000	RES.	100W	1			
R171	10000	RES.	100W	1			
R172	10000	RES.	100W	1			
R173	10000	RES.	100W	1			
R174	10000	RES.	100W	1			
R175	10000	RES.	100W	1			
R176	10000	RES.	100W	1			
R177	10000	RES.	100W	1			
R178	10000	RES.	100W	1			
R179	10000	RES.	100W	1			
R180	10000	RES.	100W	1			
R181	10000	RES.	100W	1			
R182	10000	RES.	100W	1			
R183	10000	RES.	100W	1			
R184	10000	RES.	100W	1			
R185	10000	RES.	100W	1			
R186	10000	RES.	100W	1			
R187	10000	RES.	100W	1			
R188	10000	RES.	100W	1			
R189	10000	RES.	100W	1			
R190	10000	RES.	100W	1			
R191	10000	RES.	100W	1			
R192	10000	RES.	100W	1			
R193	10000	RES.	100W	1			
R194	10000	RES.	100W	1			
R195	10000	RES.	100W	1			
R196	10000	RES.	100W	1			
R197	10000	RES.	100W	1			
R198	10000	RES.	100W	1			
R199	10000	RES.	100W	1			
R200	10000	RES.	100W	1			</



Parko P/N

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Date \_\_\_\_\_ Part No 101853 - Wind Control Lever - S/C

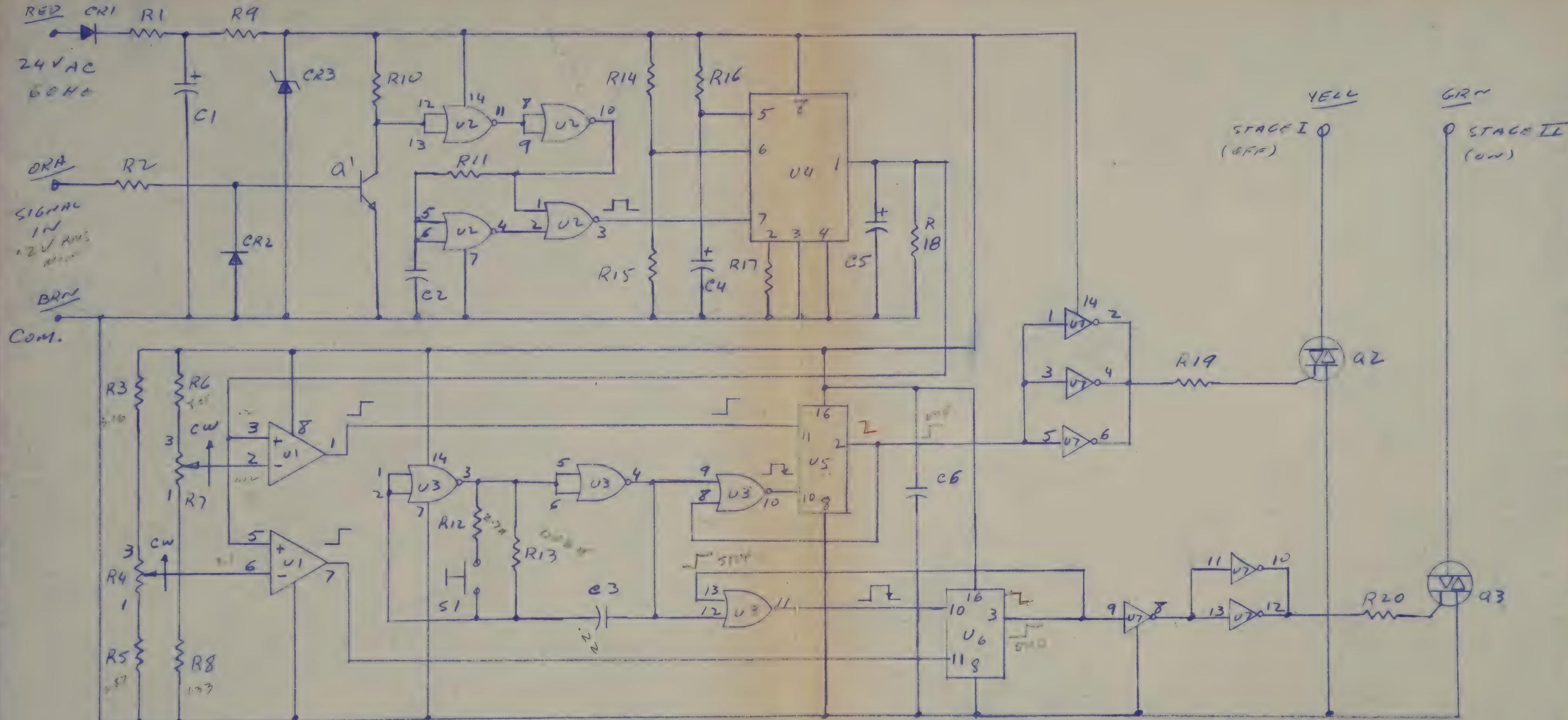
Part. No.	P/N	Description	Unit (ea)	Spec. No.	Insp.	Manufac.	Promo. No.	Notes
	P/S							

Part. No.	P/N	Description	Unit (ea)	Spec. No.	Insp.	Manufac.	Promo. No.	Notes
	P/S							









DIMENSIONS ARE IN INCHES AND AFTER PLATING		DR. <i>Carlo Lucca</i> 5/10/88
TOLERANCES (unless otherwise specified)		CHK
X $\pm .1$ XX $\pm .03$ XXX $\pm .010$ ANGLES $\pm 0.5^\circ$		DSGN
REL <i>Carlo Lucca</i> 5/10/88		PROJ
APPROVED		REL
APPROVED		CODE IDENT NO. <b>13979</b>
DO NOT SCALE DRAWING		SIZE <b>B</b>
SCALE <b>None</b>		REV <b>101854</b>
SCHEMATIC WIND CONTROLLER		







STAGE I: 5-25 MPH.  
10 MIN. TIME DECAY  
NORMALLY OFF

STAGE II: 15-45 MPa  
20 MIN. TIME DELAY  
NORMALLY "ON"

RESET TIME: 15 SEC. MAX.

DIMENSIONS ARE IN INCHES AND AFTER PLATING		DR <i>2 hours</i> 5/10/88	CHK	<b>Parko</b> ELECTRONICS COMPANY INC., SANTA ANA, CALIF.
TOLERANCES (unless otherwise specified)		DSGN	WIRING DIAGRAM - WIND CONTROLLER	
.X ±.1 .XX ±.03 .XXX±.010 ANGLES±0.5°		PROJ REL <i>Cashier</i> 5/12/88	APPROVED	CODE IDENT NO. 13979
MACH SURF <input checked="" type="checkbox"/>		APPROVED	SIZE B	REV 101854
		DO NOT SCALE DRAWING	SCALE <i>NOMIS</i>	SHEET 2 OF 2



P/n  
101853

Putnam's



January 23, 1988

Frank:

Here is the anemometer we spoke of earlier. I have not sent it to you sooner because I'm sure you have been going through more than I could imagine. I know there is nothing I can say to help, so I will just tell you that you a BJ have my sincere prayers for speedy and strong recovery.

I was pleased to find out that you felt receptive to the idea of building a control unit to replace the ones we have been getting. They have served us well, but are just getting too expensive. You may remember the details of what we need, but in case you don't let me try to reiterate them.

What we are doing is using the wind signal to trip two relays, each at a different wind velocity. The velocity at which each relay trips needs to be variable by some means such as a dial or set of dip switches. The ranges of wind speed at which the two relays trip should probably overlap to some extent to accommodate fountains of different sizes. These go into ~~con~~ control panels we build, so the depth of the unit from front to back should be no more than four inches. The can to house it should probably be a rain tight unit even though when we use it, it will be housed in the panel box, and the one we have been using we have removed the front door so that when the main door of the control panel was opened the front of the wind control was accessible without opening another door. I am enclosing a symbolic scale printout of the one we have been using just to give you an idea of how it was laid out.

Probably we would only be able to afford quantities of five or so to start, but if we can compete with our suppliers on this we may be able to sell many more when we get the word out that we have a quality alternative.

I will call you sometime in the near future to see if this has arrived safely, and to see if I have left out anything you may want to know.

In Friendship,

8011 Stockton Boulevard  
Sacramento, CA 95823  
(916) 423-1122  
(800) 354-1122

*Roger Bassett*

5

35-40

# STAGE I

SMC-II

5-25

15 - 45 -

10 min 77.00

20 NOV 1960

HORN - OFF

HORN OF